



MAY 23 2017

Mr. Kevin Basso
Forward Inc. Landfill
9999 S Austin Road
Manteca, CA 95336

**Re: Notice of Preliminary Decision – Title V Permit Renewal
District Facility # N-339
Project # N-1162178**


Dear Mr. Basso:

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for Forward Inc. Landfill at Manteca, California.

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. After addressing all comments made during the 30-day public notice and the 45-day EPA comment periods, the District intends to issue the renewed Federally Mandated Operating Permit. Please submit your written comments on this project within the 30-day public comment period, as specified in the enclosed public notice.

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Nick Peirce, Permit Services Manager, at (209) 557-6400.

Sincerely,


Arnaud Marjollet
Director of Permit Services

Enclosures

cc: Tung Le, CARB (w/enclosure) via email
cc: Gerardo C. Rios, EPA (w/enclosure) via email

Seyed Sadredin
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**SAN JOAQUIN VALLEY
AIR POLLUTION CONTROL DISTRICT**

Proposed Title V Permit Renewal Evaluation
Forward Inc. Landfill
N-339

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TITLE V PERMIT RENEWAL EVALUATION
Municipal Solid Waste Landfill

Engineer: James Harader
Date: May 10, 2017

Facility Number: N-339
Facility Name: Forward Inc. Landfill
Mailing Address: 9999 S Austin Rd
Manteca, CA 95336

Contact Name: Kevin Basso
Phone: (510) 262-7585

Responsible Official: Kevin Basso
Title: General Manager

Project # : N-1162178
Deemed Complete: January 20, 2016

I. PROPOSAL

Forward Inc. Landfill was previously issued a Title V Permit. As required by District Rule 2520, the applicant is requesting a permit renewal. The existing Title V permit shall be reviewed and modified to reflect all applicable District and federal rules updated, removed, or added since the issuance of the initial Title V permit.

The purpose of this evaluation is to provide the legal and factual basis for all updated applicable requirements and to determine if the facility will comply with these updated requirements. It also specifically identifies all additions, deletions, and/or changes made to permit conditions or equipment descriptions.

II. FACILITY LOCATION

Forward Inc. Landfill is located at 9999 South Austin Road in Manteca, CA.

III. EQUIPMENT LISTING

A detailed facility printout listing all permitted equipment at the facility is included as Attachment C.

IV. GENERAL PERMIT TEMPLATE USAGE

The applicant is requesting to use the following model general permit Templates:

A. Template SJV-UM-0-3 Facility Wide Umbrella

The applicant has requested to utilize template No. SJV-UM-0-3, Facility Wide Umbrella. Based on the information submitted in the Template Qualification Form, the applicant qualifies for the use of this template.

V. SCOPE OF EPA AND PUBLIC REVIEW

Certain segments of the proposed Renewed Operating Permit are based on model general permit templates that have been previously subject to EPA and public review. The terms and conditions from the model general permit templates are included in the proposed permit and are not subject to further EPA and public review.

For permit applications utilizing model general permit templates, public and agency comments on the District's proposed actions are limited to the applicant's eligibility for model general permit template, applicable requirements not covered by the model general permit template, and the applicable procedural requirements for issuance of Title V Operating Permits.

The following permit conditions, including their underlying applicable requirements, originate from model general permit templates and are not subject to further EPA or public review.

Conditions 1 through 40 of the requirements for permit unit N-339-0-3

VI. FEDERALLY ENFORCEABLE REQUIREMENTS

A. Rules Updated

- District Rule 2020, Exemptions
(amended December 20, 2007 ⇒ amended December 18, 2014)
- District Rule 2201, New and Modified Stationary Source Review Rule
(amended December 18, 2008 ⇒ amended February 18, 2016)
- District Rule 4621, Gasoline Transfer into Stationary Storage Containers, Delivery Vessels, and Bulk Plants (amend December 20, 2007 ⇒ amended December 19, 2013)
- District Rule 4622, Gasoline Transfer into Motor Vehicle Fuel Tanks
(amend December 20, 2007 ⇒ amended December 19, 2013)
- 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners
(amended June 18, 2008 ⇒ amended June 25, 2013)
- 40 CFR Part 82, Subpart F, Recycling and Emission Reduction
(amended June 18, 2008 ⇒ amended April 10, 2015)
- 40 CFR Part 64, Compliance Assurance Monitoring

B. Rules Removed

There are no applicable rules that were removed since the last Title V renewal.

C. Rules Added

- District Rule 2410, Prevention of Significant Deterioration
(Adopted June 16, 2011)
- 40 CFR Part 60, Subpart XXX, Standards of Performance for Municipal Solid Waste Landfills That Commenced Construction, Reconstruction, or Modification After July 17, 2014 (Adopted August 29, 2016)
- 40 CFR Part 60, Subpart Cf, Emission Guideline and Compliance Times for Municipal Solid Waste Landfills (Adopted August 29, 2016)

D. Rules Not Updated

- District Rule 1070, Inspections (amended December 17, 1992)

- District Rule 1081, Source Sampling (amended December 17, 1992)
- District Rule 1100, Equipment Breakdown (amended December 17, 1992)
- District Rule 2010, Permits Required (amended December 17, 1992)
- District Rule 2070, Standards for Granting Applications (Amended December 17, 1992)
- District Rule 2031, Transfer of Permits (amended December 17, 1992)
- District Rule 2080, Conditional Approval (amended December 17, 1992)
- District Rule 4311, Flares (amended June 18, 2009)
- District Rule 4601, Architectural Coatings (amended December 17, 2009)
- District Rule 4642, Solid Waste Disposal Sites (amended April 16, 1998)
- District Rule 8011, Fugitive Dust General Requirements (amended August 19, 2004)
- District Rule 8021, Fugitive Dust Requirements for Control of Fine Particulate Matter (PM10) from Construction, Demolition, Excavation, and Extraction Activities (amended August 19, 2004)
- District Rule 8031, Fugitive Dust Requirements for Control of Fine Particulate Matter (PM10) from Handling and Storage of Bulk Materials (amended August 19, 2004)
- District Rule 8041, Fugitive Dust Requirements for Control of Fine Particulate Matter (PM10) from Carryout and Trackout (amended August 19, 2004)
- District Rule 8051, Fugitive Dust Requirements for Control of Fine Particulate Matter (PM10) from Open Area (amended August 19, 2004)
- District Rule 8061, Fugitive Dust Requirements for Control of Fine Particulate Matter (PM10) from Paved and Unpaved Roads (amended August 19, 2004)

- District Rule 8071, Fugitive Dust Requirements for Control of Fine Particulate Matter (PM10) from Unpaved Vehicle/Equipment Areas (amended September 16, 2004)
- 40 CFR Part 60, Subpart Cc, Emission Guidelines and Compliance Times for Municipal Solid Waste Landfills (amended September 21, 2006)
- 40 CFR Part 60, Subpart WWW, Standards of Performance for Municipal Solid Waste Landfills (amended September 21, 2006)
- 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos (amended July 20, 2004)
- 40 CFR Part 62, Subpart GGG, Federal Plan Requirements for Municipal Solid Waste Landfills That Commenced Construction Prior to May 30, 1991 and Have not Been Modified or Reconstructed Since May 30, 1991 (Adopted November 8, 1999)
- 40 CFR Part 63, Subpart AAAA, National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills (amended April 20, 2006)

VII. REQUIREMENTS NOT FEDERALLY ENFORCEABLE

For each Title V source, the District issues a single permit that contains the Federally Enforceable requirements, as well as the District-only requirements. The District-only requirements are not a part of the Title V Operating Permits. The terms and conditions that are part of the facility's Title V permit are designated as "Federally Enforceable Through Title V Permit".

For this facility, the following are not federally enforceable and will not be discussed in further detail:

A. Rules Added/Updated

- Title 17 California Code of Regulations (CCR) , Subchapter 10, Climate Change, Article 4, Subarticle 6, Sections 95460 to 95476, Methane Emissions from Municipal Solid Waste Landfills (Adopted June 17, 2010)

B. Rules Not Updated

- District Rule 1100, Equipment Breakdown (Amended December 17, 1992)
- District Rule 1160, Emission Statements (Adopted November 18, 1992)
- District Rule 2040, Applications (Adopted December 17, 1992)
- District Rule 4102, Nuisance (as amended December 17, 1992)
- District Rule 4801, Sulfur Compounds (Amended December 17, 1992)

VIII. PERMIT REQUIREMENTS

The purpose of this evaluation is to review changes to federally enforceable requirements; therefore, this compliance section will only address rules that have been amended or added since the issuance of the initial Title V permit or most recent renewal of the Title V permit.

A. District Rule 2020 - Exemptions

District Rule 2020 lists equipment which is specifically exempt from obtaining permits and specifies recordkeeping requirements to verify such exemptions. The amendments to this rule do not have any effect on current permit requirements and will therefore not be addressed in this evaluation.

B. District Rule 2201 - New and Modified Stationary Source Review Rule (NSR)

District Rule 2201 has been amended since this facility's initial Title V permit was issued. However, the requirements of this rule are only triggered at the time the source undergoes a modification. All applicable requirements from any NSR permit actions have already been incorporated into the current Title V permit.

C. District Rule 2410 – Prevention of Significant Deterioration (PSD)

District Rule 2410 has been newly adopted since this Title V permit was last renewed. However the requirements of this rule are only triggered at the time the source undergoes a modification. All applicable requirements from any PSD permit actions have already been incorporated into the current Title V permit.

D. District Rule 2520 - Federally Mandated Operating Permits

No changes to this Rule have occurred since issuance of the previous TV permit; however, greenhouse gas emissions will be addressed under Rule 2520 during this renewal.

Greenhouse Gas Discussion

There are no federally applicable Greenhouse Gas (GHG) requirements for this source. It should be noted that the Mandatory Greenhouse Gas Reporting rule (40 CFR Part 98) is not included in the definition of an applicable requirement within Title V (per 40 CFR 71.2). Therefore, there will be no further discussion of GHG in this evaluation.

E. District Rule 4621 – Gasoline Transfer Into Stationary Storage Containers, Delivery Vessels, And Bulk Plants

The purpose of this rule is to limit VOC emissions from stationary storage containers, delivery vessels, and bulk plants.

This rule has been amended since the previous Title V operating permit was issued. The proposed amendments to this rule include the following:

a) Exemptions (Section 4.0)

Language was amended in Section 4.0 to exempt equipment listed in Sections 4.1 through .4 from this rule except for the requirements of Section 6.1.1 and 6.1.4. This exemption clarified that equipment listed in Sections 4.1 through 4.4 are exempt from all ARB Phase I and ARB Phase II requirements.

b) Bulk Plants and Loading Racks at Bulk Plants (Section 5.6)

Section 5.6.1 was split into two subsections 5.6.1.1 and 5.6.1.2.

- Subsection 5.6.1.1 applies to bulk plants not involved with aviation gasoline loading which continue to require an ARB certified vapor recovery system for loading operations (loading rack).
- Subsection 5.6.1.2 applies to bulk plants involved with aviation gasoline loading. The previous version of this rule requires ARB's bulk plant certification for aviation gasoline bulk loading operation. However, ARB does not certify aviation gasoline bulk loading operations. Therefore, this rule was amended to remove ARB certification requirements for these operations. Instead of ARB certifications, these operations are required to be equipped with a vapor recovery system that would meet a minimum volumetric control of 90% when measured in accordance with the test method specified in Section 6.4.9

c) Delivery Vessels (Section 5.7)

This section was amended to account for a scenario in which one delivery vessel is directly filled with gasoline from another delivery vessel without any intermediate gasoline storage tank. Such scenario can be encountered when a smaller delivery vessel is directly filled from a larger one. Since any delivery vessel into which gasoline vapors have been transferred can only be filled at a loading rack or another amendment will address this requirement.

d) Administrative Requirements (Section 6.0)

A new section 6.4.9 was added to include ARB's Test Procedure TP-202.1, Determination of Emission Factor of Vapor Recovery Systems of Bulk Plants. This test procedure is required to demonstrate the required control efficiency for bulk plant loading operations falling under proposed new Section 5.6.1.2.

The facility operates a gasoline dispensing operation with one 500 gallon aboveground storage tank served by CARB's certified Phase I vapor recovery system under existing Permit N-339-9-3.

This gasoline dispensing operation is subject to the requirements of this rule. However, none of the above stated rule amendments require any changes to the existing conditions in this permit. Therefore, continuous compliance with the requirements of this rule is expected.

F. District Rule 4622 – Gasoline Transfer into Motor Vehicle Tanks

Section 4.1 of this rule exempts gasoline dispensing operations with an aggregate dispensing operation throughput less than or equal to 24,000 gallons per calendar year and less than or equal to 10,000 gallons in any consecutive 30-day period. This dispensing operation meets the exemption requirements. Sections 6.11 and 6.12 are applicable to the dispensing operation and require the facility to keep gasoline throughput records. Conditions #14 and #15 of the proposed renewed Permit to Operate N-339-9-5 enforce these requirements.

G. 40 CFR Part 82, Subpart B, Protection of Stratospheric Ozone, Servicing of Motor Vehicle Air Conditioners (Amended June 25, 2013)

These are applicable requirements from Title VI of the CAA (Stratospheric Ozone) that apply to all sources in general. These requirements pertain to air conditioners, chillers and refrigerators located at a Title V source and to disposal of air conditioners or maintenance/recharging/disposal of motor vehicle air conditioners (MVAC).

Compliance with the requirements of this rule will be ensured with the listed permit conditions for the proposed permit in the table below:

| Permit Number | Permit Condition Numbers |
|---------------|--------------------------|
| N-339-0-3 | 28 |

H. 40 CFR Part 82, Subpart F, Protection of Stratospheric Ozone, Recycling and Emissions Reduction (Amended June 25, 2013)

These are applicable requirements from Title VI of the CAA (Stratospheric Ozone) that apply to all sources in general. These requirements pertain to air conditioners, chillers and refrigerators located at a Title V source and to disposal of air conditioners or maintenance/recharging/disposal of motor vehicle air conditioners (MVAC).

Compliance with the requirements of this rule will be ensured with the listed permit conditions for the proposed permit in the table below:

| Permit Number | Permit Condition Number |
|---------------|-------------------------|
| N-339-0-3 | 27 |

I. 40 CFR Part 60, Subpart Cf – Emission Guidelines and Compliance Times for Municipal Solid Waste Landfills

§60.30f(a) states the administrator of an air quality program in a state or United States protectorate with one or more existing MSW landfills that commenced construction, reconstruction, or modification was commenced on or before July 17, 2014, the administrator must submit a state plan to the U.S. Environmental Protection Agency (EPA) that implements the Emission Guidelines contained in this subpart.

The Administrator is in the process of developing a state plan for EPA review.

The applicable requirements of this subpart, if any, will be incorporated into the Title V permit, once the state plan has been developed and approved by EPA, under a future permitting action. Therefore, the requirements of this subpart will not be addressed under this permit renewal.

J. 40 CFR Part 60, Subpart XXX – Standards of Performance for Municipal Solid Waste Landfills That Commenced Construction, Reconstruction, or Modification After July 17, 2014

§60.760(a) states the provisions of this subpart apply to each municipal solid waste landfill that commenced construction, reconstruction, or modification after July 17, 2014.

§60.2 of Part 60, defines construction as fabrication, erection, or installation of an affected facility.

§60.761 of this subpart, defines modification as an increase in the permitted volume design capacity of the landfill by either lateral or vertical expansion based on its permitted design capacity as of July 17, 2014. Modification does not occur until the owner or operator commences construction on the lateral or vertical expansion.

This facility operates an existing landfill that has not been modified or reconstructed after July 17, 2014. Therefore, this existing landfill is not subject to the requirements of this subpart and no further discussion is required.

K. 40 CFR Part 64 - Compliance Assurance Monitoring(CAM)

40 CFR Part 64 requires Compliance Assurance Monitoring for units that meet the following three criteria:

- 1) the unit must have an emission limit for the pollutant;
- 2) the unit must have add-on controls for the pollutant; these are devices such as flue gas recirculation (FGR), baghouses, and catalytic oxidizers; and
- 3) the unit must have a pre-control potential to emit of greater than the major source thresholds.

| Pollutant | Major Source Threshold (lb/year) |
|------------------|-------------------------------------|
| NO _x | 20,000 |
| SO _x | 140,000 |
| PM ₁₀ | 140,000 |
| CO | 200,000 |
| VOC | 20,000 |

a. N-339-1-3: Wood Waste Receiving Operation

This permit unit does not contain any emission limits. Therefore, this unit is not subject to CAM requirements.

b. N-339-9-5: Gasoline Dispensing Operation with 500 Gallon Storage Tank

This permit does not contain any emission limits. Therefore, this unit is not subject to CAM requirements.

c. N-339-15-3: Sludge Drying Operation

This permit does not contain any emission limits. Therefore, this unit is not subject to CAM requirements.

d. N-339-16-3: Bioremediation Operation

This permit does not contain any emission limits. Therefore, this unit is not subject to CAM requirements.

e. N-339-17-17: Municipal Solid Waste Landfill

Section 64.2(b) states that the requirements of this part do not apply to any emission limitations or standards proposed after November 15, 1990, such as new source performance standards or national emission standards for hazardous air pollutants.

The facility is subject to the new source performance standards of 40 CFR 60 Subpart WWW, Municipal Solid Waste Landfill, and to the national emission standards for hazardous air pollutants of 40 CFR 63 Subpart AAAA. The permit does not contain more stringent requirements than the standards imposed by the above-listed subparts. Since both subparts were proposed after November 15, 1990, the exemption of Section 64.2(b) is applicable and CAM requirements do not apply to the municipal solid waste landfill.

IX. PERMIT SHIELD

A permit shield legally protects a facility from enforcement of the shielded regulations when a source is in compliance with the terms and conditions of the Title V permit. Compliance with the terms and conditions of the Operating Permit is considered compliance with all applicable requirements upon which those conditions are based, including those that have been subsumed.

A. Requirements Addressed by Model General Permit Templates

1. Model General Permit Template SJV-UM-0-3

By submitting Model General Permit Template SJV-UM-0-3 qualification form, the applicant has requested that a permit shield be granted for all the applicable requirements identified by the template. Therefore, the permit shields as granted in Model General Permit Template is included as conditions 39 and 40 of the facility-wide requirements (N-339-0-3).

B. Requirements not Addressed by Model General Permit Templates

The applicant is not requesting to add any additional permit shields during this renewal.

C. Obsolete Permit Shields From Existing Permit Requirements

The permits did not contain any obsolete permit shields.

X. CALIFORNIA ENVIRONMENTAL QUALITY ACT

The purpose of the Title V permit renewal is to update the permit to ensure that any changes to regulations since the issuance of the initial Title V permit or most recent renewal of the Title V permit are incorporated as permit requirements.

Per the California Environmental Quality Act (CEQA) Statute §21080.24, and CEQA Guidelines §15281, the issuance, modification, amendment, or renewal of any permit by an air pollution control district or air quality management district pursuant to Title V is exempt from CEQA, unless the issuance, modification, amendment, or renewal authorizes a physical or operational change to a source or facility. There will be no physical or operational change to the source or facility nor will the Title V permit renewal authorize a physical or operational change to the source or facility. Therefore, this project, a Title V permit renewal, is subject to a ministerial action that is exempt from CEQA.

XI. PERMIT CONDITIONS

See Attachment A - Draft Renewed Title V Operating Permit.

ATTACHMENTS

- A. Draft Renewed Title V Operating Permit
- B. Previous Title V Operating Permit
- C. Detailed Summary List of Facility Permits

ATTACHMENT A

Draft Renewed Title V Operating Permit

San Joaquin Valley Air Pollution Control District

FACILITY: N-339-0-3

EXPIRATION DATE: 07/31/2016

FACILITY-WIDE REQUIREMENTS

1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1 and San Joaquin County Rule 110] Federally Enforceable Through Title V Permit
2. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0 and San Joaquin County Rule 110] Federally Enforceable Through Title V Permit
3. {4364} The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
4. {4365} Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (12/20/07). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. {4366} The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.8.1 and 9.13.1] Federally Enforceable Through Title V Permit
6. {4367} A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
7. {4368} Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
8. {4369} The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
9. {4370} The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate. Any amendments to these Facility-wide Requirements that affect specific Permit Units may constitute modification of those Permit Units.

Facility Name: FORWARD INC LANDFILL
Location: 9999 S AUSTIN RD, MANTECA, CA 95336
N-339-0-3, May 9 2017 4:59PM - HARADERJ

10. {4371} The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.5.1] Federally Enforceable Through Title V Permit
11. {4372} Deviations from permit conditions must be promptly reported, including deviations attributable to upset conditions, as defined in the permit. For the purpose of this condition, promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with section 10.0 of District Rule 2520 (6/21/01). [District Rules 2520, 9.5.2 and 1100, 7.0] Federally Enforceable Through Title V Permit
12. {4373} If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.7] Federally Enforceable Through Title V Permit
13. {4374} It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.8.2] Federally Enforceable Through Title V Permit
14. {4375} The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.8.3] Federally Enforceable Through Title V Permit
15. {4376} The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.8.4] Federally Enforceable Through Title V Permit
16. {4377} The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.8.5] Federally Enforceable Through Title V Permit
17. {4378} The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.9] Federally Enforceable Through Title V Permit
18. {4379} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.13.2.1] Federally Enforceable Through Title V Permit
19. {4380} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.13.2.2] Federally Enforceable Through Title V Permit
20. {4381} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.13.2.3] Federally Enforceable Through Title V Permit
21. {4382} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.13.2.4] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

22. {4383} No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101 (02/17/05). If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101, and County Rules 401 (in all eight counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit
23. {4384} No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in Table of Standards 1 effective until 12/30/10 or Table of Standards 2 effective on and after 1/1/11 of District Rule 4601 (12/17/09) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
24. {4385} All VOC-containing materials subject to Rule 4601 (12/17/09) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
25. {4386} The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (12/17/09). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit
26. {4387} With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit
27. {4388} If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
28. {4389} If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. [40 CFR Part 82, Subpart B] Federally Enforceable Through Title V Permit
29. {4390} Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8021] Federally Enforceable Through Title V Permit
30. {4391} Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8031] Federally Enforceable Through Title V Permit
31. {4392} An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8041] Federally Enforceable Through Title V Permit
32. {4393} Whenever open areas are disturbed, or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8051] Federally Enforceable Through Title V Permit
33. {4394} Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8061] Federally Enforceable Through Title V Permit

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FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

34. {4395} Any unpaved vehicle/equipment area that anticipates more than 50 Average annual daily Trips (AADT) shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 150 vehicle trips per day (VDT) shall comply with the requirements of Section 5.1.2 of District Rule 8071. On each day that 25 or more VDT with 3 or more axles will occur on an unpaved vehicle/equipment traffic area, the owner/operator shall comply with the requirements of Section 5.1.3 of District Rule 8071. On each day when a special event will result in 1,000 or more vehicles that will travel/park on an unpaved area, the owner/operator shall comply with the requirements of Section 5.1.4 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (9/16/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8071] Federally Enforceable Through Title V Permit
35. {4396} Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit
36. {4397} The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit
37. {4398} The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit
38. {4399} When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
39. Compliance with permit conditions in the Title V permit shall be deemed in compliance with San Joaquin County Rule 110. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
40. {4401} Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (2/17/05); 4601 (12/17/09); 8021 (8/19/2004); 8031 (8/19/2004); 8041 (8/19/2004); 8051 (8/19/2004); 8061 (8/19/2004); and 8071 (9/16/2004). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
41. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin June 1 of every year, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520] Federally Enforceable Through Title V Permit
42. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-339-1-3

EXPIRATION DATE: 07/31/2016

EQUIPMENT DESCRIPTION:
WOOD WASTE RECEIVING.

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PERMIT UNIT REQUIREMENTS

1. See Facility-wide requirements for conditions applicable to this permit unit. [District Rule 2080] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: FORWARD INC LANDFILL
Location: 9999 S AUSTIN RD, MANTECA, CA 95336
N-339-1-3 : May 9 2017 4:59PM --HARADERJ

DRAFT

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-339-9-5

EXPIRATION DATE: 07/31/2016

EQUIPMENT DESCRIPTION:

GASOLINE DISPENSING OPERATION WITH ONE 500 GALLON CONVAULT ABOVEGROUND STORAGE TANK SERVED BY MORRISON BROS EVR PHASE I VAPOR RECOVERY SYSTEM (VR-402-B), STANDING LOSS CONTROL (VR-301-E), AND 1 FUELING POINT WITH 1 PHASE II EXEMPT GASOLINE DISPENSING NOZZLE

PERMIT UNIT REQUIREMENTS

1. The Phase I and Standing Loss Control Vapor recovery systems shall be installed and maintained in accordance with the manufacturer specifications and the ARB Executive Orders specified in this permit, including applicable rules and regulations of the Division of Measurement Standards of the Department of Food and Agriculture, the Office of the State Fire Marshal of the Department of Forestry and Fire Protection, the Division of Occupational Safety and Health of the Department of Industrial Relations, and the Division of Water Quality of the State Water Resources Control Board that have been made conditions of the certification. [District Rule 4621 and CH&SC 41950] Federally Enforceable Through Title V Permit
2. The storage container(s) shall be installed, maintained, and operated such that they are leak-free. [District Rule 4621] Federally Enforceable Through Title V Permit
3. The Phase I vapor recovery systems and gasoline dispensing equipment shall be maintained without leaks as determined in accordance with the test method specified in this permit. [District Rule 4621] Federally Enforceable Through Title V Permit
4. A leak is defined as the dripping of VOC-containing liquid at a rate of more than three (3) drops per minute, or the detection of any gaseous or vapor emissions with a concentration of total organic compound greater than 10,000 ppmv, as methane, above background when measured in accordance with EPA Test Method 21. [District Rule 4621] Federally Enforceable Through Title V Permit
5. No gasoline delivery vessel shall be operated or be allowed to operate unless valid State of California decals are displayed on the cargo container, which attest to the vapor integrity of the container. [District Rule 4621] Federally Enforceable Through Title V Permit
6. The permittee shall conduct periodic maintenance inspections based on the greatest monthly throughput of gasoline dispensed by the facility in the previous year as follows: A) less than 2,500 gallons - one day per month; B) 2,500 to less than 25,000 gallons - one day per week; or C) 25,000 gallons or greater - five days per week. All inspections shall be documented within the O & M Manual. [District Rule 4621] Federally Enforceable Through Title V Permit
7. Periodic maintenance inspections of the Phase I vapor recovery system shall include, at a minimum, verification that 1) the fill caps and vapor caps are not missing, damaged, or loose; 2) the fill cap gasket and vapor cap gaskets are not missing or damaged; 3) the fill adapter and vapor adapter are securely attached to the risers; 4) where applicable, the spring-loaded submerged fill tube seals properly against the coaxial tubing; 5) the dry break (poppet-valve) is not missing or damaged; and 6) the submerged fill tube is not missing or damaged. [District Rule 4621] Federally Enforceable Through Title V Permit
8. The permittee shall conduct all periodic vapor recovery system performance tests specified in this permit, no more than 30 days before or after the required compliance testing date, unless otherwise required under the applicable ARB Executive Order. [District Rule 4621] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

9. The permittee shall perform and pass a Static Leak Test "Determination of Static Pressure Performance of Vapor Recovery Systems at Gasoline Dispensing Facilities with Aboveground Tanks" in accordance with the Executive Order specified in this permit for the Phase I Vapor Recovery System at least once every 36 months. [District Rule 4621] Federally Enforceable Through Title V Permit
10. The permittee shall notify the District at least 7 days prior to each performance test. The test results shall be submitted to the District no later than 30 days after the completion of each test. [District Rule 4621] Federally Enforceable Through Title V Permit
11. A person performing installation of, or maintenance on, a certified Phase I vapor recovery system shall be certified by the ICC for Vapor Recovery System Installation and Repair, or work under the direct and personal supervision of an individual physically present at the work site who is certified. The ICC certification shall be renewed every 24 months. [District Rule 4621] Federally Enforceable Through Title V Permit
12. Proof of the ICC certification and all other certifications required by the Executive Order and installation and operation manual shall be made available onsite. [District Rule 4621] Federally Enforceable Through Title V Permit
13. A person conducting testing of, or repairs to, a certified vapor recovery system shall be in compliance with District Rule 1177 (Gasoline Dispensing Facility Tester Certification). [District Rule 4621] Federally Enforceable Through Title V Permit
14. Total gasoline throughput for the facility shall not exceed either of the following: 10,000 gallons in any consecutive 30-day period or 24,000 gallons per calendar year. If throughput exceeds stated limits, the permittee shall submit a complete application for an Authority to Construct (ATC) to the District within 30 days of the loss of exemption and install and test a certified Phase II vapor recovery system within six (6) months from the date the ATC is issued. [District Rule 4622] Federally Enforceable Through Title V Permit
15. The permittee shall maintain monthly and annual gasoline throughput records. The records should allow the gasoline throughput for any 30-day period to be continuously determined. These records shall be maintained on the premises as long as exempt status is claimed. [District Rules 4621 and 4622] Federally Enforceable Through Title V Permit
16. All records required by this permit shall be retained on-site for a period of at least five years and shall be made available for District inspection upon request. [District Rule 4621] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-339-15-3

EQUIPMENT DESCRIPTION:
SLUDGE DRYING OPERATION

EXPIRATION DATE: 07/31/2016

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PERMIT UNIT REQUIREMENTS

1. See Facility-wide requirements for conditions applicable to this permit unit. [District Rule 2080] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: FORWARD INC LANDFILL
Location: 9999 S AUSTIN RD, MANTECA, CA 95336
N-339-15-3: May 9 2017 4:50PM - HARADERJ

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-339-16-3

EQUIPMENT DESCRIPTION:
BIOREMEDIATION OPERATION

EXPIRATION DATE: 07/31/2016

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PERMIT UNIT REQUIREMENTS

- 1. See Facility-wide requirements for conditions applicable to this permit unit. [District Rule 2080] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: FORWARD INC LANDFILL
Location: 9999 S AUSTIN RD, MANTECA, CA 95338
N-339-16-3: May 6 2017 4:59PM - HARADERJ

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-339-17-17

EXPIRATION DATE 07/31/2016

EQUIPMENT DESCRIPTION:

39.0 MILLION CUBIC METER CAPACITY (354.5 ACRES) LANDFILL WITH A LANDFILL GAS COLLECTION SYSTEM CONTROLLED BY A 2,000 SCFM (EQUIVALENT TO 60 MMBTU/HR) ENCLOSED LANDFILL GAS-FIRED FLARE AND A 3,400 SCFM (EQUIVALENT TO 102 MMBTU/HR) PERRENIAL ENERGY MODEL GHS-301 ENCLOSED LANDFILL GAS-FIRED FLARE WITH AN LPG-FIRED PILOT

PERMIT UNIT REQUIREMENTS

1. All equipment shall be constructed, maintained, and operated according to the specifications and plans contained in the permit applications, except as otherwise specified herein. [District Rule 2201] Federally Enforceable Through Title V Permit
2. The enclosed flares shall each be equipped with an LPG or natural gas-fired pilot. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The enclosed flares shall each be equipped with automatic dampers, an automatic shutdown device, and a flame arrester. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The gas collection system shall be operated in a manner which maximizes the quantity of landfill gas extracted while preventing overdraw that can cause fires or damage the gas collection system. [District Rule 2201] Federally Enforceable Through Title V Permit
5. During maintenance of the gas collection system or flares, emissions of landfill gas shall be minimized. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Maintenance is defined as work performed on a gas collection system and/or control device in order to ensure continued compliance with District Rules, Regulations, and /or Permits to Operate, and to prevent its failure or malfunction. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The landfill gas collected by the landfill gas collection system shall be controlled by at least one of the following devices: 1) The 60 MMBtu/hr flare; 2) the 102 MMBtu/hr flare; and/or 3) The siloxane removal system and one of the IC engines permitted under Facility ID N-8573. Each device shall be operated at all times when the collected gas is routed to it. [District Rule 2201 and 40 CFR 60.752(b)(2)(iii)(B), 40 CFR 60.753(f), and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
8. The influent landfill gas flow rate to the 60 MMBtu/hr flare shall not exceed 2,000 SCFM (corrected to 50% methane). [District Rule 2201] Federally Enforceable Through Title V Permit
9. The influent landfill gas flow rate to the 102 MMBtu/hr flare shall not exceed 3,400 SCFM (corrected to 50% methane). [District Rule 2201] Federally Enforceable Through Title V Permit
10. The VOC destruction efficiency for the 60 MMBtu/hr flare shall be at least 98% by weight or the maximum non-methane organic compound NMOC emissions from the flare shall not exceed 20 ppmv @ 3% O₂ (as hexane). [District Rule 2201, 40 CFR 60.752(b)(2)(iii)(B) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

11. The VOC destruction efficiency for the 102 MMBtu/hr flare shall be at least 98% by weight or the maximum non-methane organic compound NMOC emissions from the flare shall not exceed 20 ppmv @ 3% O₂ (as hexane). [District Rule 2201, 40 CFR 60.752(b)(2)(iii)(B) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
12. Emissions from the 60 MMBtu/hr flare shall not exceed any of the following limits: 0.05 lb-NO_x/MMBtu, 0.0215 lb-SO_x/MMBtu, 0.034 lb-PM₁₀/MMBtu, 0.2 lb-CO/MMBtu, and 0.0113 lb-VOC/MMBtu (equivalent to 20 ppmvd VOC as Hexane @ 3% O₂). [District Rule 2201] Federally Enforceable Through Title V Permit
13. Emissions from the 102 MMBtu/hr flare shall not exceed any of the following limits: 0.05 lb-NO_x/MMBtu, 0.0215 lb-SO_x/MMBtu, (0.001 lb-PM₁₀/hr)/scfm-methane, 0.2 lb-CO/MMBtu, and 0.0113 lb-VOC/MMBtu (equivalent to 20 ppmvd VOC as Hexane @ 3% O₂). [District Rule 2201] Federally Enforceable Through Title V Permit
14. The volume of soil used for intermediate and final cover shall not exceed 61,768,080 cubic feet. [District Rule 2201] Federally Enforceable Through Title V Permit
15. PM₁₀ emissions from the placement of the intermediate and final soil cover shall not exceed 0.008 lb/ton of soil. The volume of soil shall be converted to tons of soil using a soil density of 120 lb/cubic foot. [District Rule 2201] Federally Enforceable Through Title V Permit
16. The H₂S concentration of the influent landfill gas to the flares shall not exceed 46.9 ppmv. [District Rule 2201] Federally Enforceable Through Title V Permit
17. For each flare, source testing to demonstrate compliance with the NO_x (lb/MMBtu), CO (lb/MMBtu), and VOC (98% destruction efficiency or 20 ppmvd VOC @ 3% O₂ as hexane) requirements of this permit shall be conducted at least once every 12 months. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
18. Source testing for NO_x shall be conducted using CARB Method 7, CARB Method 20, or CARB Method 100. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
19. Source testing for CO shall be conducted using EPA Method 10 or 10B, CARB Methods 1 through 5 with CARB Method 10, or CARB Method 100. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
20. VOC emissions shall be conducted using EPA Method 18, 25, 25A, or 25C. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
21. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081]
22. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
23. The combustion chamber of each flare shall be maintained at a temperature of at least 1,400 degrees Fahrenheit during operation. [District Rule 2201] Federally Enforceable Through Title V Permit
24. Each flare shall be equipped with a temperature indicator and recorder that measures and continuously records the operating temperature. [District Rule 2201] Federally Enforceable Through Title V Permit
25. For each flare, the facility shall install and maintain in proper operating condition a gas flow meter with a continuous recording device that measures the quantity of landfill gas processed each day. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Permittee shall perform testing to measure the H₂S content of the landfill gas combusted in the flares on a quarterly basis using draeger tubes. If compliance with the landfill gas H₂S content limit is demonstrated for two consecutive quarters, this testing frequency may be changed to annual. Quarterly testing shall resume if any annual test shows non-compliance with the H₂S content limit. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

27. The landfill gas collection system shall be designed and operated to: 1) Handle the maximum expected gas flow rate from the entire area of the landfill that warrants control over the intended use period of the gas control or treatment system equipment; 2) Collect gas from each area, cell or group of cells in the landfill in which the initial solid waste has been placed for a period of five years or more for an active landfill, or 2 years or more for a closed landfill or landfill at final grade; 3) Collect gas at a sufficient extraction rate; and 4) Minimize off-site migration of subsurface gas. [40 CFR 60.752(b)(2)(ii)(A), 40 CFR 60.753(a), and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
28. All exterior vapor extraction wells, leachate collection system components, and perimeter horizontal collectors shall not be located over any waste and are exempt from the operational standards of 40 CFR 60.753 and the compliance provisions of 40 CFR 60.755. Forward Inc. shall keep records of all components that qualify for this exemption and note their location with respect to the landfill's perimeter. [40 CFR 60.752(b)(2)(ii), 60.753, 60.755, 60.756, 60.757, 60.758, 60.759, and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
29. Permittee shall operate the landfill gas collection system with negative pressure at each wellhead except under the following conditions: 1) A fire or increased well temperature. The owner or operator shall record instances when positive pressure occurs in efforts to avoid a fire. These records shall be submitted with the annual reports provided in 40 CFR 60.757(f)(1); 2) Use of a geomembrane or synthetic cover. The owner shall develop acceptable pressure limits in the design plan; 3) A decommissioned well. A well may experience a static positive pressure after shut down to accommodate for declining flows. All design changes shall be approved by the District. [40 CFR 60.753(b) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
30. Unless otherwise stated on this permit, the permittee shall operate each interior wellhead in the collection system with a landfill gas temperature less than 55 degrees C and with either a nitrogen level less than 20 percent or an oxygen level less than 5 percent. [40 CFR 60.753(c) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
31. For each interior wellhead, the nitrogen level shall be determined using EPA Method 3C, unless an alternative test method is established as allowed by 40 CFR 60.752(b)(2)(i). [40 CFR 60.753(c)(1) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
32. For each interior wellhead, unless an alternative test method is established as allowed by 40 CFR 60.752(b)(2)(i), the oxygen level shall be determined by an oxygen meter using EPA Method 3A or 3C except that: 1) The span shall be set so that the regulatory limit is between 20 and 50 percent of the span; 2) A data recorder is not required; 3) Only two calibration gases are required, a zero and span, and ambient air may be used as the span; 4) A calibration check is not required; and 5) The allowable sample bias, zero drift, and calibration drive are plus or minus 10 percent. [40 CFR 60.753(c)(2) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
33. Permittee shall operate the collection system so that the methane concentration is less than 500 parts per million above background at the surface of the landfill. To determine if this level is exceeded, the owner or operator shall conduct surface testing around the perimeter of the collection area and along a pattern that traverses the landfill at 30 meter intervals and where visual observations indicate elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps in the cover on at least a quarterly basis. Permittee may establish an alternative traversing pattern that ensures equivalent coverage. A surface monitoring design plan shall be developed that includes a topographical map with the monitoring route and the rationale for any site-specific deviations from the 30 meter intervals. Areas with steep slopes or other dangerous areas may be excluded from the surface testing. [40 CFR 60.753(d), 40 CFR 60.755, and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
34. Permittee shall operate the landfill gas collection and control system such that all collected gases are vented to a control system designed and operated in compliance with 40 CFR 60.752(b)(2)(iii). In the event the collection system or control system is inoperable, the gas mover system shall be shut down and all valves in the collection and control system contributing to the venting of the gas to the atmosphere shall be closed within one hour. [40 CFR 60.753(e) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

35. If monitoring demonstrates that the operational requirements in 40 CFR 60.753(b), (c), or (d) are not met, corrective action shall be taken as specified in 40 CFR 60.755(a)(3) through (5) or 40 CFR 60.755(c). If corrective actions are taken as specified in 40 CFR 60.755, the monitored exceedance is not a violation of the operational requirements in 40 CFR 60.753. [40 CFR 60.753(g) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
36. For the purpose of demonstrating that the gas collection system is designed to handle the maximum expected gas flow rate from the entire area of the landfill that warrants control over the intended use period of the gas control system, permittee shall use one of the equations that are listed in 40 CFR 60.755(a)(1). [40 CFR 60.755(a)(1) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
37. For the purpose of determining whether there is a sufficient density of gas collectors, permittee shall design a system of vertical wells, horizontal collectors, or other collection devices satisfactory to the District, capable of controlling and extracting gas from all portions of the landfill sufficient to meet all operational and performance standards. [40 CFR 60.755(a)(2) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
38. For the purpose of demonstrating whether the landfill gas collection system flow rate is sufficient, the owner or operator shall measure gauge pressure in the gas collection system header at each individual well on a monthly basis. Except in cases where the conditions allow the wellhead to operate without a negative pressure (as outlined in this permit), action shall be initiated to correct the exceedance within 5 calendar days if a positive pressure exists. If negative pressure cannot be achieved without excess air infiltration within 15 calendar days of the first measurement, the gas collection system shall be expanded to correct the exceedance within 120 days of the initial measurement of a positive pressure. Any attempted corrective measure shall not cause exceedances or other operational or performance standards. An alternative timeline for correcting the exceedance may be submitted to the District for approval. Expansion of the collection system during the first 180 days after gas collection system startup is not required. [40 CFR 60.755(a)(3), 60.755(a)(4), and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
39. For the purpose of identifying whether excess air infiltration into the landfill is occurring, the permittee shall monitor the temperature and nitrogen or oxygen on a monthly basis. If a well exceeds one of the temperature, nitrogen, or oxygen operating parameters of this permit, action shall be initiated to correct the exceedance within five calendar days. If correction of the exceedance cannot be achieved within 15 calendar days of the first measurement, the gas collection system shall be expanded to correct the exceedance within 120 days of the initial exceedance. Any attempted corrective measure shall not cause exceedances of other operational or performance standards. An alternative timeline for correcting the exceedance may be submitted to the District for approval. [40 CFR 60.755(a)(5) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
40. Extraction wells shall be installed no later than 60 days after the date on which the initial solid waste has been in place for a period of: 1) 5 years or more for an active landfill; 2) 2 years or more for a closed landfill or a landfill at final grade. [40 CFR 60.755(b) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
41. Monitoring to determine the surface concentration of methane shall be conducted using an organic vapor analyzer, flame ionization detector, or other portable monitor meeting the specifications of 40 CFR 60.755(d). [40 CFR 60.755(c)(1), 40 CFR 60.755(d), and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
42. The background concentration of methane shall be determined by moving the probe inlet upwind and downwind the outside boundary of the landfill at a distance of at least 30 meters from the perimeter walls. [40 CFR 60.755(c)(2) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
43. Surface monitoring of the methane concentration shall be performed in accordance with Section 4.3.1 of EPA Method 21 of Appendix A of 40 CFR, except that the probe inlet shall be placed within 5 to 10 centimeters of the ground. Monitoring shall be performed during typical meteorological conditions. [40 CFR 60.755(c)(3) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

44. Any surface monitoring reading of 500 parts per million or more above background at any location shall be recorded as a monitored exceedance and the following actions shall be taken. As long as the following specified actions are taken, the exceedance is not a violation of the operational requirements of 40 CFR 60.753(d): 1) The location of each monitored exceedance shall be marked and the location recorded; 2) Cover maintenance or adjustments to the vacuum of the adjacent wells to increase the gas collection of the vicinity of each exceedance shall be made and the location shall be re-monitored within 10 calendar days of detecting the exceedance; 3) If the re-monitoring of the location shows a second exceedance, additional corrective action shall be taken and the location shall be monitored again within 10 days of the second exceedance. If re-monitoring shows a third exceedance, the action specified in item #5 of this condition shall be taken, and no further monitoring of that location is required until the action specified in item #5 has been taken; 4) Any location that initially showed an exceedance but has a methane concentration of less than 500 ppm above background at the 10-day re-monitoring shall be re-monitored 1 month from the initial exceedance. If the 1-month re-monitoring shows a concentration less than 500 parts per million above background, no further monitoring of that location is required until the next quarterly monitoring period. If the 1-month re-monitoring shows an exceedance, the actions specified in item #3 or item #5 of this condition shall be taken.; and 5) For any location where the monitored methane concentration equals or exceed 500 parts per million above background three times within a quarterly period, a new well or other collection device shall be installed within 120 calendar days of the initial exceedance. An alternative remedy to the exceedance, such as upgrading the blower, header pipes, or control device, and a corresponding timeline for installation may be submitted to the District for approval. [40 CFR 60.755(c)(4) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
45. Permittee shall implement a program to monitor for cover integrity and implement cover repairs, as necessary, on a monthly basis. [40 CFR 60.755(c)(5) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
46. The requirements of 40 CFR 60 Subpart WWW shall apply at all times, except during periods of start-up, shutdown, or malfunction. The duration of start-up, shutdown, or malfunction shall not exceed 5 days for collection systems and shall not exceed 1 hour for treatment or control devices. [40 CFR 60.755(e) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
47. Permittee shall install a sampling port and a thermometer, other temperature measuring device, or an access port for temperature measurements at each wellhead. [40 CFR 60.756(a) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
48. For each enclosed flare, permittee shall calibrate, maintain, and operate according to the manufacturer's specifications a temperature monitoring device to measure temperature in the enclosed flare with a minimum accuracy of plus or minus 1 percent of the temperature being measured, expressed in degrees Celsius, or plus or minus 0.5 degrees Celsius, whichever is greater. [40 CFR 60.756(b)(1) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
49. For each enclosed flare, permittee shall calibrate, maintain, and operate according to the manufacturer's specifications a device that records flow to or bypass of the control device. Permittee shall either: 1) Install, calibrate, and maintain a gas flow rate measuring device that shall record the flow to the control device at least once every 15 minutes; or 2) shall secure the bypass line valve in the closed position with a car-seal or a lock and key type configuration. A visual inspection of the seal or closure mechanism shall be performed at least once every month to ensure that the valve is maintained in a closed position and that the gas flow is not diverted through the bypass line. [40 CFR 60.756(b)(2) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
50. For a closed landfill that has no monitored exceedances of the standard for surface concentrations of methane in three consecutive quarterly monitoring periods may skip to annual monitoring. Any methane reading of 500 ppm or more above background detected during the annual monitoring shall return the frequency of monitoring of surface concentrations to quarterly monitoring. [40 CFR 60.756(e) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
51. The permittee shall submit a closure report to the District within 30 days of waste acceptance cessation. The District may request additional information as may be necessary to verify that permanent closure has taken place in accordance with the requirements of 40 CFR 258.60. If a closure report has been submitted to the District, no additional waste may be placed into the landfill without filing a notification of modification as described on 40 CFR 60.7(a)(4). [40 CFR 60.757(d) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

52. Permittee shall submit a report to the District, at least once every six months, that contains the following: 1) Value and length of time for each exceedance of applicable parameters monitored under 40 CFR 60.756(a), (b), (c), and (d); 2) Description of duration of all periods when the gas stream is diverted from the control device through a bypass line or the indication of bypass flow as specified under 40 CFR 60.756; 3) Description and duration of all periods when the control device was not operating for a period exceeding 1 hour and length of time control device was not operating; 4) All periods when the control system was not operating in excess of five days; 5) The location of each exceedance of the 500 parts per million methane concentration as provided in 40 CFR 60.753(d) and the concentration recorded at each location for which an exceedance was recorded in the previous month; and 6) The date of installation and the location of each well or collection system expansion added pursuant to 40 CFR 60.755(a)(3), (b), and (c)(4). [40 CFR 60.757(f) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
53. Permittee shall keep records of the design capacity report which triggered 40 CFR 60.752(b) requirements, the current amount of solid waste in-place, and the year-by-year waste acceptance rate. [40 CFR 60.758(a) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
54. Permittee shall keep records of the following data, as measured during the initial performance test or compliance determination: 1) The maximum expected gas generation flow rate as calculated per 40 CFR 60.755(a)(1); 2) The density of wells, horizontal collectors, surface collectors, or other gas extraction devices as determined using the procedures specified in 40 CFR 60.759(a)(1); 3) For each enclosed flare, the average combustion temperature measured at least every 15 minutes and averaged over the same time period for the source test; and 4) For each enclosed flare, the percent reduction of NMOC determined as specified in 40 CFR 60.752(b)(2)(iii)(B). [40 CFR 60.758(b)(1) and (2) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
55. Permittee shall keep continuous records of the equipment operating parameters specified to be monitored in 40 CFR 60.756, as well as up to date records of operation during with the parameter boundaries established during the most recent performance tests are exceeded. For each enclosed flare, all 3-hour periods of operation during with the average combustion temperature was more than 28 degree Celsius below the average combustion temperature during the most recent performance test shall constitute an exceedance and shall be recorded and reported under 40 CFR 60.757(f). [40 CFR 60.758(c) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
56. Permittee shall keep, for the life of the collection system, a plot map showing each existing and planned collector in the system and providing a unique identification location label of each collector. Permittee shall keep records of the installation date and location of all newly installed collectors as specified under 40 CFR 60.755(b). Permittee shall keep records of the date of disposition, amount, and location of asbestos-containing or non-degradable waste excluded from collection as provided in 40 CFR 60.759(a)(3)(i) as well as any non-productive areas excluded from collection as provided in 40 CFR 60.759(a)(3)(ii). [40 CFR 60.758(d) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
57. Permittee shall keep records of all collection and control system exceedances of the operational standards in 40 CFR 60.753, the reading in the subsequent month and whether or not the second reading is an exceedance, and the location of each exceedance. [40 CFR 60.758(e) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
58. Permittee shall site active collection wells, horizontal collectors, surface collectors, and other extraction devices at a sufficient density throughout all gas producing areas of the landfill using the procedures listed in 40 CFR 60.759(a), unless alternative procedures have been approved by the District. [40 CFR 60.759(a) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
59. The collection devices within the landfill interior and along the perimeter areas shall be certified to achieve comprehensive control of surface gas emissions by a professional engineer. The following issues shall be addressed in the design: depths of refuse, refuse gas generation rates and flow characteristics, cover properties, gas system expandability, leachate and condensate management, accessibility, compatibility with filling operations, integration with closure end use, air intrusion control, corrosion resistance, fill settlement, and resistance to the refuse decomposition heat. The design shall address landfill gas migration issues and augmentation of the collection system through the use of active or passive systems at the landfill perimeter and exterior. [40 CFR 60.759(a)(1) and (2) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

60. The placement of gas collection devices shall control all gas producing areas except the following: 1) Any segregated area of asbestos or non-degradable material may be excluded from collection if documented as provided in 40 CFR 60.758(d). The documentation shall provide the nature, date of disposition, location, and amount of asbestos or non-degradable material deposited in the area, and shall be provided to the District upon request.; 2) Any nonproductive area of the landfill may be excluded from control, provided the total of all excluded areas can be shown to contribute to less than 1 percent of the total amount of non-methane organic compound emissions from the landfill. [40 CFR 60.759(a)(3) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
61. The landfill gas extraction components shall be constructed of polyvinyl chloride (PVC), high density polyethylene (HDPE) pipe, fiberglass, stainless steel, or other nonporous corrosion resistant material of suitable dimensions to: convey projected amounts of gases, withstand installation, static, and settlement forces, and withstand planned overburden or traffic loads. The collection system shall extend as necessary to comply with emission and migration standards. Collection devices such as wells and horizontal collectors shall be perforated to allow gas entry without head loss sufficient to impair performance across the intended extent of control. Perforations shall be situated with regard to the need to prevent excessive air infiltration. [40 CFR 60.759(b)(1) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
62. Vertical wells shall be placed so as not to endanger underlying liners and shall address the occurrence of water within the landfill. Holes and trenches constructed for piped wells and horizontal collectors shall be of sufficient cross-section so as to allow for their proper construction and completion. Collection devices shall be designed so as not to allow indirect short circuiting of air into the cover area or refuse into the collection system or gas into the air. Any gravel used around pipe perforations shall be of a dimension so as not to penetrate or block perforations. [40 CFR 60.759(b)(2) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
63. Collection devices may be connected to the collection header pipes below or above the landfill surface. The connector assembly shall include a positive closing throttle valve, any necessary seals and couplings, access couplings and at least one sampling port. The collection devices shall be constructed of PVC, HDPE, fiberglass, stainless steel, or other nonporous materials of suitable thickness. [40 CFR 60.759(b)(3) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
64. Permittee shall convey the landfill gas to the control system through the collection header pipes. The gas mover equipment shall be sized to handle the maximum gas generation flow rate expected over the intended period of gas moving equipment. For existing collection systems, the flow data, if flow data exists, shall be used to project the maximum flow rate. For new collection systems or existing collection systems for which no flow data exists, the maximum flow rate shall be in accordance with 40 CFR 60.755(a)(1). [40 CFR 60.759(c) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
65. Permittee shall develop a written SSM plan according to the provisions of 40 CFR 63.6(e)(3). A copy of the SSM plan shall be maintained on site. Failure to write or maintain a copy of the SSM plan is a deviation from the requirements of 40 CFR 63 Subpart AAAA. [40 CFR 63.1960] Federally Enforceable Through Title V Permit
66. For parameters required to be continuously monitored by 40 CFR 60 Subpart WWW, a deviation of 40 CFR 63 Subpart AAAA shall be deemed to have occurred when 1 hour or more of the hours during the 3-hour block averaging period does not constitute a valid hour of data. A valid hour of data must have measured values for at least three 15-minute monitoring periods within the hour. [40 CFR 63.1965(b)] Federally Enforceable Through Title V Permit
67. Permittee shall keep records and reports as specified in the general provisions of 40 CFR Part 60, and 40 CFR Part 63, as shown in Table 1 of 40 CFR part 63 Subpart AAAA. [40 CFR 63.1980(b)] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

68. For LFG extraction wellheads A11-04, A11-05, A11-06, A11-07, A11-08, A11-09, A11-10, A11-11, A12-02, A12-03, A12-04, A12-14, A12-15, A13-08, A14-08, A14-09, A14-11, AOS9RS, AO65RS, F-12-01, F12-06, F12-07, F12-08, F12-09, F12-10, F12-11, F13-01, FU03-01R, FU04-14R, FU04-15R, FU04-18R, FU04-19R, FU04-27R, FU04-27R, FU05-08R, FU05-10R, FU05-15R, FU06-15, FU06-16, FU08-02, FU08-03, Top Deck Well 01, Top Deck Well 02, Top Deck Well 03, Top Deck Well 04, Top Deck Well 05, and Top Deck Well 13, the permittee shall operate each of these wellheads with a landfill gas temperature less than 141 degrees F and with either a nitrogen level less than 20 percent or an oxygen level less than 5 percent. The following monitoring requirements are applicable to these wellheads: 1) The permittee shall perform monthly CO monitoring using Draeger tubes, or a District/EPA approved monitoring device, for wellheads with a measured temperature greater than 131 degrees F; 2) If the measured field CO readings are less than 200 ppmv, the well may continue to operate up to a temperature less than 141 degrees F; 3) If the measured field CO readings are equal to or greater than 200 ppmv and less than or equal to 500 ppmv, the well shall be monitored on a weekly basis to verify that there is no subsurface oxidation occurring. Once the CO levels decrease to below 200 ppmv, the monthly monitoring schedule shall resume; 4) If the measured field CO readings are in excess of 500 ppmv, the well shall be temporarily closed and documented and a sample shall be obtained within one week of the exceedance and analyzed for CO using EPA Method D-1946. If results confirm the readings are in excess of 500 ppmv, the well shall remain closed and off-line and the District shall be notified within 24 hours of the exceedance; and 5) Upon receiving notification from the District, the permittee shall undertake such actions as directed by the District and/or EPA to further investigate the potential for subsurface oxidation in the area of a wellhead and develop a plan for remediation. [40 CFR 60.753(c) and 40 CFR 63 Subpart AAAAA] Federally Enforceable Through Title V Permit
69. The permittee may request an alternative gas temperature limit for LFG extraction wellheads by submitting a request in writing to US EPA and the District. Any such request shall contain all available sampling and other evidence relevant to EPA's and the District's consideration of the requesting, including, but not limited to, the existence of suspected or actual subsurface combustion. After considering the request, EPA and the District will either grant the request or deny it, in writing. If EPA and the District grant the request for an alternative wellhead gas temperature limit for an existing wellhead, the alternative approved limit shall immediately supersede the previously applicable limit and become the new temperature limit for that wellhead. [40 CFR 60.753(c) and 40 CFR 63 Subpart AAAAA] Federally Enforceable Through Title V Permit
70. Permittee shall keep records of any maintenance to the landfill gas collection or control devices, including the reason for maintenance, duration of the maintenance, and any collection or control system downtime. [District Rule 2201] Federally Enforceable Through Title V Permit
71. Permittee shall maintain records of system inspections including: date, time, and inspection results. [District Rule 1070] Federally Enforceable Through Title V Permit
72. For each flare, permittee shall keep records of emission source tests results. [District Rule 2201] Federally Enforceable Through Title V Permit
73. For each flare, permittee shall keep records of the continuous flare combustion temperature measurements, and the continuous volumetric landfill gas flow rate measurements. Permittee shall keep a daily and an annual record of the quantity of landfill gas processed in each flare. [District Rule 2201] Federally Enforceable Through Title V Permit
74. All records shall be retained for a period of at least five years and shall be made available for District inspection upon request. [District Rules 1070, 2201, 40 CFR 60 Subpart WWW, and 40 CFR 60 Subpart AAAAA] Federally Enforceable Through Title V Permit
75. The permittee shall notify the District by telephone at least 24 hours prior to performing any maintenance work that requires the landfill gas collection and control system to be shutdown. The notification shall include a description of the work, the date work will be performed, and the quantity of time needed to complete the maintenance work. [District Rule 2201] Federally Enforceable Through Title V Permit
76. The methane destruction efficiency for the enclosed flares shall be at least 99% by weight. [17 CCR 95464]
77. Landfill collection and control system must be operated such that methane emission from the landfill do not exceed instantaneous or integrated limit requirements. [17 CCR 95464]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

78. Landfill gas collection system wellheads must be operated under vacuum. Monthly monitoring of wellheads is required. Landfill gas collection system wellheads may be operated under neutral or positive pressure when there is a fire or during other times as allowed in sections 95464 (c), 95464(d), and 95464(e) [17 CCR 95464]
79. Landfill gas collection system components downstream of blower have a leak limit of 500 ppmv as methane. Components must be checked quarterly. If compliance with the methane limit has been demonstrated for 4 consecutive quarters, then the component checking frequency shall be annually. If an annual test fails to show compliance, quarterly testing shall resume. [17 CCR 95464]
80. Each flare must have automatic dampers, an automatic shutdown device, a flame arrester, and continuous recording temperature sensors. [17 CCR 95464]
81. Each flare must operate within the parameter ranges established during the initial or most recent source test. [17 CCR 95464]
82. Landfill collection and control system must be operated such that landfill surface methane emissions shall not exceed instantaneous surface emission limit of 500 ppmv as methane or integrated surface emission limit of 25 ppmv as methane. [17 CCR 95464, 17 CCR 95465]
83. Instantaneous and integrated landfill surface emissions measurements shall be done quarterly. The landfill may monitor annually provided they comply with requirements of 17 CCR 95469 (a)(1). [17 CCR 95469]
84. Permittee shall keep records of all gas collection system downtime exceeding five days, including individual well shutdown and disconnection times and the reason for downtime. [17 CCR 95470]
85. Permittee shall keep records of all gas control system downtime in excess of one hour, the reason for the downtime and the length of time the gas control system was shutdown. [17 CCR 95470]
86. Permittee shall keep records of the expected gas generation flow rate calculated pursuant to section 95471(e). [17 CCR 95470]
87. Permittee shall keep records of all instantaneous surface readings of 200 ppmv or greater; all exceedances of the limits in sections 95464(b)(1)(B) or 95465, including the location of the leak (or affected grid), leak concentration in ppmv, date and time of measurement, the action taken to repair the leak, date of repair, any required re-monitoring and the re-monitored concentration in ppmv, and wind speed during surface sampling; and the installation date and location of each well installed as part of a gas collection system expansion. [17 CCR 95470]
88. Permittee shall keep records of any positive wellhead gauge pressure measurements, the date of the measurements, the well identification number, and the corrective action taken. [17 CCR 95470]
89. Permittee shall terminate surface emission testing when the measured average wind speed is over 15 mph or the instantaneous wind speed is over 30 mph. [17 CCR 95468, 17 CCR 95471]
90. Permittee shall only conduct surface emission testing when precipitation has met the following requirements. It has been 24 hours since measured precipitation of 0.01 to 0.15 inches. It has been 48 hours since measured precipitation of 0.16 to 0.24 inches. It has been 72 hours since measured precipitation of 0.25 or more inches. [17 CCR 95468]
91. Permittee shall keep records of the annual solid waste acceptance rate and the current amount of waste-in-place. [17 CCR 95470]
92. Permittee shall keep records of the nature, location, amount, and date of deposition of non-degradable waste for any landfill areas excluded from the collection system. [17 CCR 95470]
93. Permittee shall keep records of any source tests conducted pursuant to section 95464(b)(4). [17 CCR 95470]
94. Permittee shall keep records describing the mitigation measures taken to prevent the release of methane or other emissions into the atmosphere during the following activities: 1. When solid waste was brought to the surface during the installation or preparation of wells, piping, or other equipment; 2. During repairs or the temporary shutdown of gas collection system components; or, 3. When solid waste was excavated and moved. [17 CCR 95470]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

95. Permittee shall keep records of any construction activities pursuant to section 95466. The records must contain the following information: 1. A description of the actions being taken, the areas of the MSW landfill that will be affected by these actions, the reason the actions are required, and any landfill gas collection system components that will be affected by these actions. 2. Construction start and finish dates, projected equipment installation dates, and projected shut down times for individual gas collection system components. 3. A description of the mitigation measures taken to minimize methane emissions and other potential air quality impacts. [17 CCR 95470]
96. Permittee shall keep records of the equipment operating parameters specified to be monitored under section 95469(b)(1) as well as records for periods of operation during which the parameter boundaries established during the most recent source test are exceeded. The records must include the following information: 1. For enclosed flares, all 3-hour periods of operation during which the average temperature difference was more than 28 degrees Celsius (or 50 degrees Fahrenheit) below the average combustion temperature during the most recent source test at which compliance with sections 95464(b)(2) was determined and a gas flow rate device which must record the flow to the control device at least every 15 minutes. [17 CCR 95470]
97. Permittee shall submit the following reports as required in section 95470(b): Closure notification, Equipment removal report and Annual report. All reports must be accompanied by a certification of truth, accuracy, and completeness signed by a responsible official. [17 CCR 95470]
98. Permittee may comply with the CARB regulation for landfill methane control measures by using approved alternative compliance options. The permittee shall obtain written District approval for the use of any alternative compliance options not approved by this permit. Changes to the approved alternate compliance options must be made and approved in writing. Documentation of approved alternative compliance options shall be available for inspection upon request. [17 CCR 95468]

These terms and conditions are part of the Facility-wide Permit to Operate.

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ATTACHMENT B

Previous Title V Operating Permit

San Joaquin Valley Air Pollution Control District

FACILITY: N-339-0-2

EXPIRATION DATE: 07/31/2016

FACILITY-WIDE REQUIREMENTS

1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1 and San Joaquin County Rule 110] Federally Enforceable Through Title V Permit
2. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0 and San Joaquin County Rule 110] Federally Enforceable Through Title V Permit
3. The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
4. Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (12/20/07). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.8.1 and 9.13.1] Federally Enforceable Through Title V Permit
6. A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
7. Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
8. The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
9. The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate. Any amendments to these Facility-wide Requirements that affect specific Permit Units may constitute modification of those Permit Units.

Facility Name: FORWARD INC LANDFILL

Location: 8998 S AUSTIN RD, MANTECA, CA 95336

N-339-0-2, May 9 2017 4:59PM - HARADERJ

10. The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.5.1] Federally Enforceable Through Title V Permit
11. Deviations from permit conditions must be promptly reported, including deviations attributable to upset conditions, as defined in the permit. For the purpose of this condition, promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with section 10.0 of District Rule 2520 (6/21/01). [District Rules 2520, 9.5.2 and 1100, 7.0] Federally Enforceable Through Title V Permit
12. If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.7] Federally Enforceable Through Title V Permit
13. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.8.2] Federally Enforceable Through Title V Permit
14. The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.8.3] Federally Enforceable Through Title V Permit
15. The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.8.4] Federally Enforceable Through Title V Permit
16. The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.8.5] Federally Enforceable Through Title V Permit
17. The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.9] Federally Enforceable Through Title V Permit
18. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.13.2.1] Federally Enforceable Through Title V Permit
19. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.13.2.2] Federally Enforceable Through Title V Permit
20. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.13.2.3] Federally Enforceable Through Title V Permit
21. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.13.2.4] Federally Enforceable Through Title V Permit
22. No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101 (02/17/05). If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101, and County Rules 401 (in all eight counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

23. No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in Table of Standards 1 effective until 12/30/10 or Table of Standards 2 effective on and after 1/1/11 of District Rule 4601 (12/17/09) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
24. All VOC-containing materials subject to Rule 4601 (12/17/09) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
25. The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (12/17/09). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit
26. With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit
27. If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
28. If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. [40 CFR Part 82, Subpart B] Federally Enforceable Through Title V Permit
29. Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8021] Federally Enforceable Through Title V Permit
30. Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8031] Federally Enforceable Through Title V Permit
31. An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8041] Federally Enforceable Through Title V Permit
32. Whenever open areas are disturbed, or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8051] Federally Enforceable Through Title V Permit
33. Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8061] Federally Enforceable Through Title V Permit
34. Any unpaved vehicle/equipment area that anticipates more than 50 Average annual daily Trips (AADT) shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 150 vehicle trips per day (VDT) shall comply with the requirements of Section 5.1.2 of District Rule 8071. On each day that 25 or more VDT with 3 or more axles will occur on an unpaved vehicle/equipment traffic area, the owner/operator shall comply with the requirements of Section 5.1.3 of District Rule 8071. On each day when a special event will result in 1,000 or more vehicles that will travel/park on an unpaved area, the owner/operator shall comply with the requirements of Section 5.1.4 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (9/16/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8071] Federally Enforceable Through Title V Permit
35. Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

36. The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit
37. The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit
38. When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
39. Compliance with permit conditions in the Title V permit shall be deemed in compliance with San Joaquin County Rule 110. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
40. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (2/17/05); 4601 (12/17/09); 8021 (8/19/2004); 8031 (8/19/2004); 8041 (8/19/2004); 8051 (8/19/2004); 8061 (8/19/2004); and 8071 (9/16/2004). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
41. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin June 1 of every year, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520] Federally Enforceable Through Title V Permit
42. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-339-1-2

EXPIRATION DATE: 07/31/2016

EQUIPMENT DESCRIPTION:
WOOD WASTE RECEIVING.

PERMIT UNIT REQUIREMENTS

1. See Facility-wide requirements for conditions applicable to this permit unit. [District Rule 2080] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-339-9-3

EXPIRATION DATE: 07/31/2016

EQUIPMENT DESCRIPTION:

GASOLINE DISPENSING OPERATION WITH ONE 500 GALLON CONVAULT ABOVEGROUND STORAGE TANK SERVED BY MORRISON BROS EVR PHASE I VAPOR RECOVERY SYSTEM (VR-402-B), STANDING LOSS CONTROL (VR-301-E), AND 1 FUELING POINT WITH 1 PHASE II EXEMPT GASOLINE DISPENSING NOZZLE

PERMIT UNIT REQUIREMENTS

1. The Phase I and Standing Loss Control Vapor recovery systems shall be installed and maintained in accordance with the manufacturer specifications and the ARB Executive Orders specified in this permit, including applicable rules and regulations of the Division of Measurement Standards of the Department of Food and Agriculture, the Office of the State Fire Marshal of the Department of Forestry and Fire Protection, the Division of Occupational Safety and Health of the Department of Industrial Relations, and the Division of Water Quality of the State Water Resources Control Board that have been made conditions of the certification. [District Rule 4621 and CH&SC 41950] Federally Enforceable Through Title V Permit
2. The storage container(s) shall be installed, maintained, and operated such that they are leak-free. [District Rule 4621] Federally Enforceable Through Title V Permit
3. The Phase I vapor recovery systems and gasoline dispensing equipment shall be maintained without leaks as determined in accordance with the test method specified in this permit. [District Rule 4621] Federally Enforceable Through Title V Permit
4. A leak is defined as the dripping of VOC-containing liquid at a rate of more than three (3) drops per minute, or the detection of any gaseous or vapor emissions with a concentration of total organic compound greater than 10,000 ppmv, as methane, above background when measured in accordance with EPA Test Method 21. [District Rule 4621] Federally Enforceable Through Title V Permit
5. No gasoline delivery vessel shall be operated or be allowed to operate unless valid State of California decals are displayed on the cargo container, which attest to the vapor integrity of the container. [District Rule 4621] Federally Enforceable Through Title V Permit
6. The permittee shall conduct periodic maintenance inspections based on the greatest monthly throughput of gasoline dispensed by the facility in the previous year as follows: A) less than 2,500 gallons - one day per month; B) 2,500 to less than 25,000 gallons - one day per week; or C) 25,000 gallons or greater - five days per week. All inspections shall be documented within the O & M Manual. [District Rule 4621] Federally Enforceable Through Title V Permit
7. Periodic maintenance inspections of the Phase I vapor recovery system shall include, at a minimum, verification that 1) the fill caps and vapor caps are not missing, damaged, or loose; 2) the fill cap gasket and vapor cap gaskets are not missing or damaged; 3) the fill adapter and vapor adapter are securely attached to the risers; 4) where applicable, the spring-loaded submerged fill tube seals properly against the coaxial tubing; 5) the dry break (poppet-valve) is not missing or damaged; and 6) the submerged fill tube is not missing or damaged. [District Rule 4621] Federally Enforceable Through Title V Permit
8. The permittee shall conduct all periodic vapor recovery system performance tests specified in this permit, no more than 30 days before or after the required compliance testing date, unless otherwise required under the applicable ARB Executive Order. [District Rule 4621] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

9. The permittee shall perform and pass a Static Leak Test "Determination of Static Pressure Performance of Vapor Recovery Systems at Gasoline Dispensing Facilities with Aboveground Tanks" in accordance with the Executive Order specified in this permit for the Phase I Vapor Recovery System at least once every 36 months. [District Rule 4621] Federally Enforceable Through Title V Permit
10. The permittee shall notify the District at least 7 days prior to each performance test. The test results shall be submitted to the District no later than 30 days after the completion of each test. [District Rule 4621] Federally Enforceable Through Title V Permit
11. A person performing installation of, or maintenance on, a certified Phase I vapor recovery system shall be certified by the ICC for Vapor Recovery System Installation and Repair, or work under the direct and personal supervision of an individual physically present at the work site who is certified. The ICC certification shall be renewed every 24 months. [District Rule 4621] Federally Enforceable Through Title V Permit
12. Proof of the ICC certification and all other certifications required by the Executive Order and installation and operation manual shall be made available onsite. [District Rule 4621] Federally Enforceable Through Title V Permit
13. A person conducting testing of, or repairs to, a certified vapor recovery system shall be in compliance with District Rule 1177 (Gasoline Dispensing Facility Tester Certification). [District Rule 4621] Federally Enforceable Through Title V Permit
14. Total gasoline throughput for the facility shall not exceed either of the following: 10,000 gallons in any consecutive 30-day period or 24,000 gallons per calendar year. If throughput exceeds stated limits, the permittee shall submit a complete application for an Authority to Construct (ATC) to the District within 30 days of the loss of exemption and install and test a certified Phase II vapor recovery system within six (6) months from the date the ATC is issued. [District Rule 4622] Federally Enforceable Through Title V Permit
15. The permittee shall maintain monthly and annual gasoline throughput records. The records should allow the gasoline throughput for any 30-day period to be continuously determined. These records shall be maintained on the premises as long as exempt status is claimed. [District Rules 4621 and 4622] Federally Enforceable Through Title V Permit
16. All records required by this permit shall be retained on-site for a period of at least five years and shall be made available for District inspection upon request. [District Rule 4621] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-339-15-2

EXPIRATION DATE: 07/31/2016

EQUIPMENT DESCRIPTION:
SLUDGE DRYING OPERATION

PERMIT UNIT REQUIREMENTS

- I. See Facility-wide requirements for conditions applicable to this permit unit. [District Rule 2080] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-339-16-2

EXPIRATION DATE: 07/31/2016

EQUIPMENT DESCRIPTION:
BIOREMEDIATION OPERATION

PERMIT UNIT REQUIREMENTS

1. See Facility-wide requirements for conditions applicable to this permit unit. [District Rule 2080] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-339-17-14

EXPIRATION DATE: 07/31/2016

EQUIPMENT DESCRIPTION:

39.0 MILLION CUBIC METER CAPACITY (354.5 ACRES) LANDFILL WITH A LANDFILL GAS COLLECTION SYSTEM CONTROLLED BY A 2,000 SCFM (EQUIVALENT TO 60 MMBTU/HR) ENCLOSED LANDFILL GAS-FIRED FLARE AND A 3,400 SCFM (EQUIVALENT TO 102 MMBTU/HR) PERRENIAL ENERGY MODEL GHS-301 ENCLOSED LANDFILL GAS-FIRED FLARE WITH AN LPG-FIRED PILOT

PERMIT UNIT REQUIREMENTS

1. All equipment shall be constructed, maintained, and operated according to the specifications and plans contained in the permit applications, except as otherwise specified herein. [District Rule 2201] Federally Enforceable Through Title V Permit
2. The enclosed flares shall each be equipped with an LPG or natural gas-fired pilot. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The enclosed flares shall each be equipped with automatic dampers, an automatic shutdown device, and a flame arrester. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The gas collection system shall be operated in a manner which maximizes the quantity of landfill gas extracted while preventing overdraw that can cause fires or damage the gas collection system. [District Rule 2201] Federally Enforceable Through Title V Permit
5. During maintenance of the gas collection system or flares, emissions of landfill gas shall be minimized. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Maintenance is defined as work performed on a gas collection system and/or control device in order to ensure continued compliance with District Rules, Regulations, and /or Permits to Operate, and to prevent its failure or malfunction. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The landfill gas collected by the landfill gas collection system shall be controlled by at least one of the following devices: 1) The 60 MMBtu/hr flare; 2) the 102 MMBtu/hr flare; and/or 3) The siloxane removal system and one of the IC engines permitted under Facility ID N-8573. Each device shall be operated at all times when the collected gas is routed to it. [District Rule 2201 and 40 CFR 60.752(b)(2)(iii)(B), 40 CFR 60.753(f), and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
8. The influent landfill gas flow rate to the 60 MMBtu/hr flare shall not exceed 2,000 SCFM (corrected to 50% methane). [District Rule 2201] Federally Enforceable Through Title V Permit
9. The influent landfill gas flow rate to the 102 MMBtu/hr flare shall not exceed 3,400 SCFM (corrected to 50% methane). [District Rule 2201] Federally Enforceable Through Title V Permit
10. The VOC destruction efficiency for the 60 MMBtu/hr flare shall be at least 98% by weight or the maximum non-methane organic compound NMOC emissions from the flare shall not exceed 20 ppmv @ 3% O₂ (as hexane). [District Rule 2201, 40 CFR 60.752(b)(2)(iii)(B) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

11. The VOC destruction efficiency for the 102 MMBtu/hr flare shall be at least 98% by weight or the maximum non-methane organic compound NMOC emissions from the flare shall not exceed 20 ppmv @ 3% O₂ (as hexane). [District Rule 2201, 40 CFR 60.752(b)(2)(iii)(B) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
12. Emissions from the 60 MMBtu/hr flare shall not exceed any of the following limits: 0.05 lb-NO_x/MMBtu, 0.0215 lb-SO_x/MMBtu, 0.034 lb-PM₁₀/MMBtu, 0.2 lb-CO/MMBtu, and 0.0113 lb-VOC/MMBtu (equivalent to 20 ppmvd VOC as Hexane @ 3% O₂). [District Rule 2201] Federally Enforceable Through Title V Permit
13. Emissions from the 102 MMBtu/hr flare shall not exceed any of the following limits: 0.05 lb-NO_x/MMBtu, 0.0215 lb-SO_x/MMBtu, (0.001 lb-PM₁₀/hr)/scfm-methane, 0.2 lb-CO/MMBtu, and 0.0113 lb-VOC/MMBtu (equivalent to 20 ppmvd VOC as Hexane @ 3% O₂). [District Rule 2201] Federally Enforceable Through Title V Permit
14. The volume of soil used for intermediate and final cover shall not exceed 61,768,080 cubic feet. [District Rule 2201] Federally Enforceable Through Title V Permit
15. PM₁₀ emissions from the placement of the intermediate and final soil cover shall not exceed 0.008 lb/ton of soil. The volume of soil shall be converted to tons of soil using a soil density of 120 lb/cubic foot. [District Rule 2201] Federally Enforceable Through Title V Permit
16. The H₂S concentration of the influent landfill gas to the flares shall not exceed 46.9 ppmv. [District Rule 2201] Federally Enforceable Through Title V Permit
17. For each flare, source testing to demonstrate compliance with the NO_x (lb/MMBtu), CO (lb/MMBtu), and VOC (98% destruction efficiency or 20 ppmvd VOC @ 3% O₂ as hexane) requirements of this permit shall be conducted at least once every 12 months. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
18. Source testing for NO_x shall be conducted using CARB Method 7 or CARB Method 20. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
19. Source testing for CO shall be conducted using EPA Method 10 or 10B, CARB Methods 1 through 5 with CARB Method 10, or CARB Method 100. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
20. VOC emissions shall be conducted using EPA Method 18, 25, 25A, or 25C. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
21. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081]
22. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
23. The combustion chamber of each flare shall be maintained at a temperature of at least 1,400 degrees Fahrenheit during operation. [District Rule 2201] Federally Enforceable Through Title V Permit
24. Each flare shall be equipped with a temperature indicator and recorder that measures and continuously records the operating temperature. [District Rule 2201] Federally Enforceable Through Title V Permit
25. For each flare, the facility shall install and maintain in proper operating condition a gas flow meter with a continuous recording device that measures the quantity of landfill gas processed each day. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Permittee shall perform testing to measure the H₂S content of the landfill gas combusted in the flares on a quarterly basis using draeger tubes. If compliance with the landfill gas H₂S content limit is demonstrated for two consecutive quarters, this testing frequency may be changed to annual. Quarterly testing shall resume if any annual test shows non-compliance with the H₂S content limit. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

27. The landfill gas collection system shall be designed and operated to: 1) Handle the maximum expected gas flow rate from the entire area of the landfill that warrants control over the intended use period of the gas control or treatment system equipment; 2) Collect gas from each area, cell or group of cells in the landfill in which the initial solid waste has been placed for a period of five years or more for an active landfill, or 2 years or more for a closed landfill or landfill at final grade; 3) Collect gas at a sufficient extraction rate; and 4) Minimize off-site migration of subsurface gas. [40 CFR 60.752(b)(2)(ii)(A), 40 CFR 60.753(a), and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
28. All exterior vapor extraction wells, leachate collection system components, and perimeter horizontal collectors shall not be located over any waste and are exempt from the operational standards of 40 CFR 60.753 and the compliance provisions of 40 CFR 60.755. Forward Inc. shall keep records of all components that qualify for this exemption and note their location with respect to the landfill's perimeter. [40 CFR 60.752(b)(2)(ii), 60.753, 60.755, 60.756, 60.757, 60.758, 60.759, and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
29. Permittee shall operate the landfill gas collection system with negative pressure at each wellhead except under the following conditions: 1) A fire or increased well temperature. The owner or operator shall record instances when positive pressure occurs in efforts to avoid a fire. These records shall be submitted with the annual reports provided in 40 CFR 60.757(f)(1); 2) Use of a geomembrane or synthetic cover. The owner shall develop acceptable pressure limits in the design plan; 3) A decommissioned well. A well may experience a static positive pressure after shut down to accommodate for declining flows. All design changes shall be approved by the District. [40 CFR 60.753(b) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
30. Unless otherwise stated on this permit, the permittee shall operate each interior wellhead in the collection system with a landfill gas temperature less than 55 degrees C and with either a nitrogen level less than 20 percent or an oxygen level less than 5 percent. [40 CFR 60.753(c) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
31. For each interior wellhead, the nitrogen level shall be determined using EPA Method 3C, unless an alternative test method is established as allowed by 40 CFR 60.752(b)(2)(i). [40 CFR 60.753(c)(1) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
32. For each interior wellhead, unless an alternative test method is established as allowed by 40 CFR 60.752(b)(2)(i), the oxygen level shall be determined by an oxygen meter using EPA Method 3A or 3C except that: 1) The span shall be set so that the regulatory limit is between 20 and 50 percent of the span; 2) A data recorder is not required; 3) Only two calibration gases are required, a zero and span, and ambient air may be used as the span; 4) A calibration check is not required; and 5) The allowable sample bias, zero drift, and calibration drive are plus or minus 10 percent. [40 CFR 60.753(c)(2) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
33. Permittee shall operate the collection system so that the methane concentration is less than 500 parts per million above background at the surface of the landfill. To determine if this level is exceeded, the owner or operator shall conduct surface testing around the perimeter of the collection area and along a pattern that traverses the landfill at 30 meter intervals and where visual observations indicate elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps in the cover on at least a quarterly basis. Permittee may establish an alternative traversing pattern that ensures equivalent coverage. A surface monitoring design plan shall be developed that includes a topographical map with the monitoring route and the rationale for any site-specific deviations from the 30 meter intervals. Areas with steep slopes or other dangerous areas may be excluded from the surface testing. [40 CFR 60.753(d), 40 CFR 60.755, and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
34. Permittee shall operate the landfill gas collection and control system such that all collected gases are vented to a control system designed and operated in compliance with 40 CFR 60.752(b)(2)(iii). In the event the collection system or control system is inoperable, the gas mover system shall be shut down and all valves in the collection and control system contributing to the venting of the gas to the atmosphere shall be closed within one hour. [40 CFR 60.753(e) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

35. If monitoring demonstrates that the operational requirements in 40 CFR 60.753(b), (c), or (d) are not met, corrective action shall be taken as specified in 40 CFR 60.755(a)(3) through (5) or 40 CFR 60.755(c). If corrective actions are taken as specified in 40 CFR 60.755, the monitored exceedance is not a violation of the operational requirements in 40 CFR 60.753. [40 CFR 60.753(g) and 40 CFR 63 Subpart AAAAA] Federally Enforceable Through Title V Permit
36. For the purpose of demonstrating that the gas collection system is designed to handle the maximum expected gas flow rate from the entire area of the landfill that warrants control over the intended use period of the gas control system, permittee shall use one of the equations that are listed in 40 CFR 60.755(a)(1). [40 CFR 60.755(a)(1) and 40 CFR 63 Subpart AAAAA] Federally Enforceable Through Title V Permit
37. For the purpose of determining whether there is a sufficient density of gas collectors, permittee shall design a system of vertical wells, horizontal collectors, or other collection devices satisfactory to the District, capable of controlling and extracting gas from all portions of the landfill sufficient to meet all operational and performance standards. [40 CFR 60.755(a)(2) and 40 CFR 63 Subpart AAAAA] Federally Enforceable Through Title V Permit
38. For the purpose of demonstrating whether the landfill gas collection system flow rate is sufficient, the owner or operator shall measure gauge pressure in the gas collection system header at each individual well on a monthly basis. Except in cases where the conditions allow the wellhead to operate without a negative pressure (as outlined in this permit), action shall be initiated to correct the exceedance within 5 calendar days if a positive pressure exists. If negative pressure cannot be achieved without excess air infiltration within 15 calendar days of the first measurement, the gas collection system shall be expanded to correct the exceedance within 120 days of the initial measurement of a positive pressure. Any attempted corrective measure shall not cause exceedances or other operational or performance standards. An alternative timeline for correcting the exceedance may be submitted to the District for approval. Expansion of the collection system during the first 180 days after gas collection system startup is not required. [40 CFR 60.755(a)(3), 60.755(a)(4), and 40 CFR 63 Subpart AAAAA] Federally Enforceable Through Title V Permit
39. For the purpose of identifying whether excess air infiltration into the landfill is occurring, the permittee shall monitor the temperature and nitrogen or oxygen on a monthly basis. If a well exceeds one of the temperature, nitrogen, or oxygen operating parameters of this permit, action shall be initiated to correct the exceedance within five calendar days. If correction of the exceedance cannot be achieved within 15 calendar days of the first measurement, the gas collection system shall be expanded to correct the exceedance within 120 days of the initial exceedance. Any attempted corrective measure shall not cause exceedances of other operational or performance standards. An alternative timeline for correcting the exceedance may be submitted to the District for approval. [40 CFR 60.755(a)(5) and 40 CFR 63 Subpart AAAAA] Federally Enforceable Through Title V Permit
40. Extraction wells shall be installed no later than 60 days after the date on which the initial solid waste has been in place for a period of: 1) 5 years or more for an active landfill; 2) 2 years or more for a closed landfill or a landfill at final grade. [40 CFR 60.755(b) and 40 CFR 63 Subpart AAAAA] Federally Enforceable Through Title V Permit
41. Monitoring to determine the surface concentration of methane shall be conducted using an organic vapor analyzer, flame ionization detector, or other portable monitor meeting the specifications of 40 CFR 60.755(d). [40 CFR 60.755(c)(1), 40 CFR 60.755(d), and 40 CFR 63 Subpart AAAAA] Federally Enforceable Through Title V Permit
42. The background concentration of methane shall be determined by moving the probe inlet upwind and downwind the outside boundary of the landfill at a distance of at least 30 meters from the perimeter walls. [40 CFR 60.755(c)(2) and 40 CFR 63 Subpart AAAAA] Federally Enforceable Through Title V Permit
43. Surface monitoring of the methane concentration shall be performed in accordance with Section 4.3.1 of EPA Method 21 of Appendix A of 40 CFR, except that the probe inlet shall be placed within 5 to 10 centimeters of the ground. Monitoring shall be performed during typical meteorological conditions. [40 CFR 60.755(c)(3) and 40 CFR 63 Subpart AAAAA] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

44. Any surface monitoring reading of 500 parts per million or more above background at any location shall be recorded as a monitored exceedance and the following actions shall be taken. As long as the following specified actions are taken, the exceedance is not a violation of the operational requirements of 40 CFR 60.753(d): 1) The location of each monitored exceedance shall be marked and the location recorded; 2) Cover maintenance or adjustments to the vacuum of the adjacent wells to increase the gas collection of the vicinity of each exceedance shall be made and the location shall be re-monitored within 10 calendar days of detecting the exceedance; 3) If the re-monitoring of the location shows a second exceedance, additional corrective action shall be taken and the location shall be monitored again within 10 days of the second exceedance. If re-monitoring shows a third exceedance, the action specified in item #5 of this condition shall be taken, and no further monitoring of that location is required until the action specified in item #5 has been taken; 4) Any location that initially showed an exceedance but has a methane concentration of less than 500 ppm above background at the 10-day re-monitoring shall be re-monitored 1 month from the initial exceedance. If the 1-month re-monitoring shows a concentration less than 500 parts per million above background, no further monitoring of that location is required until the next quarterly monitoring period. If the 1-month re-monitoring shows an exceedance, the actions specified in item #3 or item #5 of this condition shall be taken.; and 5) For any location where the monitored methane concentration equals or exceed 500 parts per million above background three times within a quarterly period, a new well or other collection device shall be installed within 120 calendar days of the initial exceedance. An alternative remedy to the exceedance, such as upgrading the blower, header pipes, or control device, and a corresponding timeline for installation may be submitted to the District for approval. [40 CFR 60.755(c)(4) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
45. Permittee shall implement a program to monitor for cover integrity and implement cover repairs, as necessary, on a monthly basis. [40 CFR 60.755(c)(5) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
46. The requirements of 40 CFR 60 Subpart WWW shall apply at all times, except during periods of start-up, shutdown, or malfunction. The duration of start-up, shutdown, or malfunction shall not exceed 5 days for collection systems and shall not exceed 1 hour for treatment or control devices. [40 CFR 60.755(e) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
47. Permittee shall install a sampling port and a thermometer, other temperature measuring device, or an access port for temperature measurements at each wellhead. [40 CFR 60.756(a) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
48. For each enclosed flare, permittee shall calibrate, maintain, and operate according to the manufacturer's specifications a temperature monitoring device to measure temperature in the enclosed flare with a minimum accuracy of plus or minus 1 percent of the temperature being measured, expressed in degrees Celsius, or plus or minus 0.5 degrees Celsius, whichever is greater. [40 CFR 60.756(b)(1) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
49. For each enclosed flare, permittee shall calibrate, maintain, and operate according to the manufacturer's specifications a device that records flow to or bypass of the control device. Permittee shall either: 1) Install, calibrate, and maintain a gas flow rate measuring device that shall record the flow to the control device at least once every 15 minutes; or 2) shall secure the bypass line valve in the closed position with a car-seal or a lock and key type configuration. A visual inspection of the seal or closure mechanism shall be performed at least once every month to ensure that the valve is maintained in a closed position and that the gas flow is not diverted through the bypass line. [40 CFR 60.756(b)(2) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
50. For a closed landfill that has no monitored exceedances of the standard for surface concentrations of methane in three consecutive quarterly monitoring periods may skip to annual monitoring. Any methane reading of 500 ppm or more above background detected during the annual monitoring shall return the frequency of monitoring of surface concentrations to quarterly monitoring. [40 CFR 60.756(e) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
51. The permittee shall submit a closure report to the District within 30 days of waste acceptance cessation. The District may request additional information as may be necessary to verify that permanent closure has taken place in accordance with the requirements of 40 CFR 258.60. If a closure report has been submitted to the District, no additional waste may be placed into the landfill without filing a notification of modification as described on 40 CFR 60.7(a)(4). [40 CFR 60.757(d) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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52. Permittee shall submit a report to the District, at least once every six months, that contains the following: 1) Value and length of time for each exceedance of applicable parameters monitored under 40 CFR 60.756(a), (b), (c), and (d); 2) Description of duration of all periods when the gas stream is diverted from the control device through a bypass line or the indication of bypass flow as specified under 40 CFR 60.756; 3) Description and duration of all periods when the control device was not operating for a period exceeding 1 hour and length of time control device was not operating; 4) All periods when the control system was not operating in excess of five days; 5) The location of each exceedance of the 500 parts per million methane concentration as provided in 40 CFR 60.753(d) and the concentration recorded at each location for which an exceedance was recorded in the previous month; and 6) The date of installation and the location of each well or collection system expansion added pursuant to 40 CFR 60.755(a)(3), (b), and (c)(4). [40 CFR 60.757(f) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
53. Permittee shall keep records of the design capacity report which triggered 40 CFR 60.752(b) requirements, the current amount of solid waste in-place, and the year-by-year waste acceptance rate. [40 CFR 60.758(a) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
54. Permittee shall keep records of the following data, as measured during the initial performance test or compliance determination: 1) The maximum expected gas generation flow rate as calculated per 40 CFR 60.755(a)(1); 2) The density of wells, horizontal collectors, surface collectors, or other gas extraction devices as determined using the procedures specified in 40 CFR 60.759(a)(1); 3) For each enclosed flare, the average combustion temperature measured at least every 15 minutes and averaged over the same time period for the source test; and 4) For each enclosed flare, the percent reduction of NMOC determined as specified in 40 CFR 60.752(b)(2)(iii)(B). [40 CFR 60.758(b)(1) and (2) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
55. Permittee shall keep continuous records of the equipment operating parameters specified to be monitored in 40 CFR 60.756, as well as up to date records of operation during with the parameter boundaries established during the most recent performance tests are exceeded. For each enclosed flare, all 3-hour periods of operation during with the average combustion temperature was more than 28 degree Celsius below the average combustion temperature during the most recent performance test shall constitute an exceedance and shall be recorded and reported under 40 CFR 60.757(f). [40 CFR 60.758(c) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
56. Permittee shall keep, for the life of the collection system, a plot map showing each existing and planned collector in the system and providing a unique identification location label of each collector. Permittee shall keep records of the installation date and location of all newly installed collectors as specified under 40 CFR 60.755(b). Permittee shall keep records of the date of disposition, amount, and location of asbestos-containing or non-degradable waste excluded from collection as provided in 40 CFR 60.759(a)(3)(i) as well as any non-productive areas excluded from collection as provided in 40 CFR 60.759(a)(3)(ii). [40 CFR 60.758(d) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
57. Permittee shall keep records of all collection and control system exceedances of the operational standards in 40 CFR 60.753, the reading in the subsequent month and whether or not the second reading is an exceedance, and the location of each exceedance. [40 CFR 60.758(e) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
58. Permittee shall site active collection wells, horizontal collectors, surface collectors, and other extraction devices at a sufficient density throughout all gas producing areas of the landfill using the procedures listed in 40 CFR 60.759(a), unless alternative procedures have been approved by the District. [40 CFR 60.759(a) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
59. The collection devices within the landfill interior and along the perimeter areas shall be certified to achieve comprehensive control of surface gas emissions by a professional engineer. The following issues shall be addressed in the design: depths of refuse, refuse gas generation rates and flow characteristics, cover properties, gas system expandability, leachate and condensate management, accessibility, compatibility with filling operations, integration with closure end use, air intrusion control, corrosion resistance, fill settlement, and resistance to the refuse decomposition heat. The design shall address landfill gas migration issues and augmentation of the collection system through the use of active or passive systems at the landfill perimeter and exterior. [40 CFR 60.759(a)(1) and (2) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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60. The placement of gas collection devices shall control all gas producing areas except the following: 1) Any segregated area of asbestos or non-degradable material may be excluded from collection if documented as provided in 40 CFR 60.758(d). The documentation shall provide the nature, date of disposition, location, and amount of asbestos or non-degradable material deposited in the area, and shall be provided to the District upon request.; 2) Any nonproductive area of the landfill may be excluded from control, provided the total of all excluded areas can be shown to contribute to less than 1 percent of the total amount of non-methane organic compound emissions from the landfill. [40 CFR 60.759(a)(3) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
61. The landfill gas extraction components shall be constructed of polyvinyl chloride (PVC), high density polyethylene (HDPE) pipe, fiberglass, stainless steel, or other nonporous corrosion resistant material of suitable dimensions to: convey projected amounts of gases, withstand installation, static, and settlement forces, and withstand planned overburden or traffic loads. The collection system shall extend as necessary to comply with emission and migration standards. Collection devices such as wells and horizontal collectors shall be perforated to allow gas entry without head loss sufficient to impair performance across the intended extent of control. Perforations shall be situated with regard to the need to prevent excessive air infiltration. [40 CFR 60.759(b)(1) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
62. Vertical wells shall be placed so as not to endanger underlying liners and shall address the occurrence of water within the landfill. Holes and trenches constructed for piped wells and horizontal collectors shall be of sufficient cross-section so as to allow for their proper construction and completion. Collection devices shall be designed so as not to allow indirect short circuiting of air into the cover area or refuse into the collection system or gas into the air. Any gravel used around pipe perforations shall be of a dimension so as not to penetrate or block perforations. [40 CFR 60.759(b)(2) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
63. Collection devices may be connected to the collection header pipes below or above the landfill surface. The connector assembly shall include a positive closing throttle valve, any necessary seals and couplings, access couplings and at least one sampling port. The collection devices shall be constructed of PVC, HDPE, fiberglass, stainless steel, or other nonporous materials of suitable thickness. [40 CFR 60.759(b)(3) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
64. Permittee shall convey the landfill gas to the control system through the collection header pipes. The gas mover equipment shall be sized to handle the maximum gas generation flow rate expected over the intended period of gas moving equipment. For existing collection systems, the flow data, if flow data exists, shall be used to project the maximum flow rate. For new collection systems or existing collection systems for which no flow data exists, the maximum flow rate shall be in accordance with 40 CFR 60.755(a)(1). [40 CFR 60.759(c) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
65. Permittee shall develop a written SSM plan according to the provisions of 40 CFR 63.6(c)(3). A copy of the SSM plan shall be maintained on site. Failure to write or maintain a copy of the SSM plan is a deviation from the requirements of 40 CFR 63 Subpart AAAA. [40 CFR 63.1960] Federally Enforceable Through Title V Permit
66. For parameters required to be continuously monitored by 40 CFR 60 Subpart WWW, a deviation of 40 CFR 63 Subpart AAAA shall be deemed to have occurred when 1 hour or more of the hours during the 3-hour block averaging period does not constitute a valid hour of data. A valid hour of data must have measured values for at least three 15-minute monitoring periods within the hour. [40 CFR 63.1965(b)] Federally Enforceable Through Title V Permit
67. Permittee shall keep records and reports as specified in the general provisions of 40 CFR Part 60, and 40 CFR Part 63, as shown in Table 1 of 40 CFR part 63 Subpart AAAA. [40 CFR 63.1980(b)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

68. For LFG extraction wellheads A11-04, A11-05, A11-06, A11-07, A11-08, A11-09, A11-10, A11-11, A12-02, A12-03, A12-04, A12-14, A12-15, A13-08, A14-08, A14-09, A14-11, AO59RS, AO65RS, F-12-01, F12-06, F12-07, F12-08, F12-09, F12-10, F12-11, F13-01, FU03-01R, FU04-14R, FU04-15R, FU04-18R, FU04-19R, FU04-27R, FU04-27R, FU05-08R, FU05-10R, FU05-15R, FU06-15, FU06-16, FU-08-02, FU08-03, Top Deck Well 01, Top Deck Well 02, Top Deck Well 03, Top Deck Well 04, Top Deck Well 05, and Top Deck Well 13, the permittee shall operate each of these wellheads with a landfill gas temperature less than 141 degrees F and with either a nitrogen level less than 20 percent or an oxygen level less than 5 percent. The following monitoring requirements are applicable to these wellheads: 1) The permittee shall perform monthly CO monitoring using Draeger tubes, or a District/EPA approved monitoring device, for wellheads with a measured temperature greater than 131 degrees F; 2) If the measured field CO readings are less than 200 ppmv, the well may continue to operate up to a temperature less than 141 degrees F; 3) If the measured field CO readings are equal to or greater than 200 ppmv and less than or equal to 500 ppmv, the well shall be monitored on a weekly basis to verify that there is no subsurface oxidation occurring. Once the CO levels decrease to below 200 ppmv, the monthly monitoring schedule shall resume; 4) If the measured field CO readings are in excess of 500 ppmv, the well shall be temporarily closed and documented and a sample shall be obtained within one week of the exceedance and analyzed for CO using EPA Method D-1946. If results confirm the readings are in excess of 500 ppmv, the well shall remain closed and off-line and the District shall be notified within 24 hours of the exceedance; and 5) Upon receiving notification from the District, the permittee shall undertake such actions as directed by the District and/or EPA to further investigate the potential for subsurface oxidation in the area of a wellhead and develop a plan for remediation. [40 CFR 60.753(c) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
69. The permittee may request an alternative gas temperature limit for LFG extraction wellheads by submitting a request in writing to US EPA and the District. Any such request shall contain all available sampling and other evidence relevant to EPA's and the District's consideration of the requesting, including, but not limited to, the existence of suspected or actual subsurface combustion. After considering the request, EPA and the District will either grant the request or deny it, in writing. If EPA and the District grant the request for an alternative wellhead gas temperature limit for an existing wellhead, the alternative approved limit shall immediately supersede the previously applicable limit and become the new temperature limit for that wellhead. [40 CFR 60.753(c) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
70. Permittee shall keep records of any maintenance to the landfill gas collection or control devices, including the reason for maintenance, duration of the maintenance, and any collection or control system downtime. [District Rule 2201] Federally Enforceable Through Title V Permit
71. Permittee shall maintain records of system inspections including: date, time, and inspection results. [District Rule 1070] Federally Enforceable Through Title V Permit
72. For each flare, permittee shall keep records of emission source tests results. [District Rule 2201] Federally Enforceable Through Title V Permit
73. For each flare, permittee shall keep records of the continuous flare combustion temperature measurements, and the continuous volumetric landfill gas flow rate measurements. Permittee shall keep a daily and an annual record of the quantity of landfill gas processed in each flare. [District Rule 2201] Federally Enforceable Through Title V Permit
74. All records shall be retained for a period of at least five years and shall be made available for District inspection upon request. [District Rules 1070, 2201, 40 CFR 60 Subpart WWW, and 40 CFR 60 Subpart AAAA] Federally Enforceable Through Title V Permit
75. The permittee shall notify the District by telephone at least 24 hours prior to performing any maintenance work that requires the landfill gas collection and control system to be shutdown. The notification shall include a description of the work, the date work will be performed, and the quantity of time needed to complete the maintenance work. [District Rule 2201] Federally Enforceable Through Title V Permit
76. The methane destruction efficiency for the enclosed flares shall be at least 99% by weight. [17 CCR 95464]
77. Landfill collection and control system must be operated such that methane emission from the landfill do not exceed instantaneous or integrated limit requirements. [17 CCR 95464]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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78. Landfill gas collection system wellheads must be operated under vacuum. Monthly monitoring of wellheads is required. Landfill gas collection system wellheads may be operated under neutral or positive pressure when there is a fire or during other times as allowed in sections 95464 (c), 95464(d), and 95464(e) [17 CCR 95464]
79. Landfill gas collection system components downstream of blower have a leak limit of 500 ppmv as methane. Components must be checked quarterly. If compliance with the methane limit has been demonstrated for 4 consecutive quarters, then the component checking frequency shall be annually. If an annual test fails to show compliance, quarterly testing shall resume. [17 CCR 95464]
80. Each flare must have automatic dampers, an automatic shutdown device, a flame arrester, and continuous recording temperature sensors. [17 CCR 95464]
81. Each flare must operate within the parameter ranges established during the initial or most recent source test. [17 CCR 95464]
82. Landfill collection and control system must be operated such that landfill surface methane emissions shall not exceed instantaneous surface emission limit of 500 ppmv as methane or integrated surface emission limit of 25 ppmv as methane. [17 CCR 95464, 17 CCR 95465]
83. Instantaneous and integrated landfill surface emissions measurements shall be done quarterly. The landfill may monitor annually provided they comply with requirements of 17 CCR 95469 (a)(1). [17 CCR 95469]
84. Permittee shall keep records of all gas collection system downtime exceeding five days, including individual well shutdown and disconnection times and the reason for downtime. [17 CCR 95470]
85. Permittee shall keep records of all gas control system downtime in excess of one hour, the reason for the downtime and the length of time the gas control system was shutdown. [17 CCR 95470]
86. Permittee shall keep records of the expected gas generation flow rate calculated pursuant to section 95471(e). [17 CCR 95470]
87. Permittee shall keep records of all instantaneous surface readings of 200 ppmv or greater; all exceedances of the limits in sections 95464(b)(1)(B) or 95465, including the location of the leak (or affected grid), leak concentration in ppmv, date and time of measurement, the action taken to repair the leak, date of repair, any required re-monitoring and the re-monitored concentration in ppmv, and wind speed during surface sampling; and the installation date and location of each well installed as part of a gas collection system expansion. [17 CCR 95470]
88. Permittee shall keep records of any positive wellhead gauge pressure measurements, the date of the measurements, the well identification number, and the corrective action taken. [17 CCR 95470]
89. Permittee shall terminate surface emission testing when the measured average wind speed is over 15 mph or the instantaneous wind speed is over 30 mph. [17 CCR 95468, 17 CCR 95471]
90. Permittee shall only conduct surface emission testing when precipitation has met the following requirements. It has been 24 hours since measured precipitation of 0.01 to 0.15 inches. It has been 48 hours since measured precipitation of 0.16 to 0.24 inches. It has been 72 hours since measured precipitation of 0.25 or more inches. [17 CCR 95468]
91. Permittee shall keep records of the annual solid waste acceptance rate and the current amount of waste-in-place. [17 CCR 95470]
92. Permittee shall keep records of the nature, location, amount, and date of deposition of non-degradable waste for any landfill areas excluded from the collection system. [17 CCR 95470]
93. Permittee shall keep records of any source tests conducted pursuant to section 95464(b)(4). [17 CCR 95470]
94. Permittee shall keep records describing the mitigation measures taken to prevent the release of methane or other emissions into the atmosphere during the following activities: 1. When solid waste was brought to the surface during the installation or preparation of wells, piping, or other equipment; 2. During repairs or the temporary shutdown of gas collection system components; or, 3. When solid waste was excavated and moved. [17 CCR 95470]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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95. Permittee shall keep records of any construction activities pursuant to section 95466. The records must contain the following information: 1. A description of the actions being taken, the areas of the MSW landfill that will be affected by these actions, the reason the actions are required, and any landfill gas collection system components that will be affected by these actions. 2. Construction start and finish dates, projected equipment installation dates, and projected shut down times for individual gas collection system components. 3. A description of the mitigation measures taken to minimize methane emissions and other potential air quality impacts. [17 CCR 95470]
96. Permittee shall keep records of the equipment operating parameters specified to be monitored under section 95469(b)(1) as well as records for periods of operation during which the parameter boundaries established during the most recent source test are exceeded. The records must include the following information: 1. For enclosed flares, all 3-hour periods of operation during which the average temperature difference was more than 28 degrees Celsius (or 50 degrees Fahrenheit) below the average combustion temperature during the most recent source test at which compliance with sections 95464(b)(2) was determined and a gas flow rate device which must record the flow to the control device at least every 15 minutes. [17 CCR 95470]
97. Permittee shall submit the following reports as required in section 95470(b): Closure notification, Equipment removal report and Annual report. All reports must be accompanied by a certification of truth, accuracy, and completeness signed by a responsible official. [17 CCR 95470]
98. Permittee may comply with the CARB regulation for landfill methane control measures by using approved alternative compliance options. The permittee shall obtain written District approval for the use of any alternative compliance options not approved by this permit. Changes to the approved alternate compliance options must be made and approved in writing. Documentation of approved alternative compliance options shall be available for inspection upon request. [17 CCR 95468]

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ATTACHMENT C

Detailed Summary List of Facility Permits

Detailed Facility Report

For Facility=339

5/9/17
5:01 pm

Sorted by Facility Name and Permit Number

| | | | | | |
|------------------------------|------------------|-------------------|------------------|---------------|-------------------|
| FORWARD INC. LANDFILL | FAC # | N 339 | TYPE | Title# | EXPIRE ON |
| 9999 S AUSTIN RD | STATUS | A | TOXIC ID. | | AREA |
| MANATECA, CA 95336 | TELEPHONE | 2094664482 | | | INSP DATE |
| | | | | | 07/31/2016 |
| | | | | | 9/7/202 |
| | | | | | 04/18 |

| PERMIT NUMBER | FEE DESCRIPTION | FEE RULE | QTY | FEE AMOUNT | FEE TOTAL | PERMIT STATUS | EQUIPMENT DESCRIPTION |
|---------------|----------------------|-----------|-----|------------|-----------|---------------|--|
| N-339-1-2 | MISCELLANEOUS | 3020-06 | 1 | 116.00 | 116.00 | A | WOOD WASTE RECEIVING. |
| N-339-2-0 | 2,030,000 BTU/HR (D) | 3020-02 E | 1 | 451.00 | 451.00 | D | WOOD CHIPPING & CONVEYING |
| N-339-3-0 | 40 HP | 3020-01 B | 1 | 129.00 | 129.00 | D | MATERIAL TRANSFER AND LOADOUT FROM NESCO CHIPPER. *** PERMIT DELETED 12/31/98 - FJC *** |
| N-339-4-0 | 290 HP | 3020-10 C | 1 | 264.00 | 264.00 | D | NESCO WOOD PRODUCTS CHIPPER & CONVEYING EQUIPMENT POWERED BY A CUMMINGS DIESEL ENGINE (290 HP). |
| N-339-5-0 | 25 HP OR LESS | 3020-01 A | 1 | 97.00 | 97.00 | D | WOODWASTE CHIPPER |
| N-339-6-0 | LESS THAN 25 HP | 3020-01 A | 1 | 97.00 | 97.00 | D | NEW WOOD GRINDER WITH HAMMER SCREENS (WHO MANUFACTURING). |
| N-339-7-0 | 475 HP | 3020-10 D | 1 | 525.00 | 525.00 | D | W.H.O. GRINDER WITH SCREENS AND CONVEYING EQUIPMENT POWERED BY A CATERPILLAR DIESEL ENGINE (475 HP). *** PERMIT DELETED 12/31/98 - FJC *** |
| N-339-8-0 | MISCELLANEOUS | 3020-06 | 1 | 116.00 | 116.00 | D | TRUCK LOADOUT FROM W.H.O. GRINDER. *** PERMIT DELETED 12/31/98 - FJC *** |
| N-339-9-3 | 1 nozzle | 3020-11 A | 1 | 38.00 | 38.00 | A | GASOLINE DISPENSING OPERATION WITH ONE 500 GALLON CONVAULT ABOVEGROUND STORAGE TANK SERVED BY MORRISON BROS EVR PHASE I VAPOR RECOVERY SYSTEM (VR-402-B), STANDING LOSS CONTROL (VR-301-E), AND 1 FUELING POINT WITH 1 PHASE II EXEMPT GASOLINE DISPENSING NOZZLE |
| N-339-10-0 | 157 ACRES | 3020-12 U | 157 | 109.00 | 3,774.00 | D | 157 ACRE CLASS III WASTE DISPOSAL LANDFILL |
| N-339-11-1 | 117 hp | 3020-10 B | 1 | 129.00 | 129.00 | D | 117 BHP CUMMINS DIESEL FIRED ENGINE, MODEL 4B, POWERING A TRACTOR MOUNTED WILDCAT MANUFACTURING MODEL CX750-AME COMPOST PILE TURNER, USED IN A COMPOSTING OPERATION. *** PERMIT DELETED PER SOURCE REQUEST 8/18/04. JS *** |
| N-339-15-2 | MISCELLANEOUS | 3020-06 | 1 | 116.00 | 116.00 | A | SLUDGE DRYING OPERATION |
| N-339-16-2 | MISCELLANEOUS | 3020-06 | 1 | 116.00 | 116.00 | A | BIOREMEDIATION OPERATION |
| N-339-17-14 | 354.5 Acres | 3020-12 U | 355 | 109.00 | 8,134.00 | A | 39.0 MILLION CUBIC METER CAPACITY (354.5 ACRES) LANDFILL WITH A LANDFILL GAS COLLECTION SYSTEM CONTROLLED BY A 2,000 SCFM (EQUIVALENT TO 60 MMBTU/HR) ENCLOSED LANDFILL GAS-FIRED FLARE AND A 3,400 SCFM (EQUIVALENT TO 102 MMBTU/HR) PERRENIAL ENERGY MODEL GHS-301 ENCLOSED LANDFILL GAS-FIRED FLARE WITH AN LPG-FIRED PILOT |
| N-339-18-1 | 106 hp | 3020-10 B | 1 | 129.00 | 129.00 | D | TRANSPORTABLE 106 HP CATERPILLAR DIESEL FIRED IC ENGINE, MODEL # 3054, SERVING A LANDFILL TRUCK TIPPER *** PERMIT DELETED PER SOURCE REQUEST 8/18/04. JS *** |